

# JAMECO<sup>®</sup>

## ELECTRONICS

Catalog 272  
May 2007

**FASTEST  
GROWING  
SELECTION**

**— OF —**

**MAJOR  
MANUFACTURERS**

**— AND —**

**MONEY SAVING  
JAMECO BRANDS**

**A TO Z:**  
GET THE FULL  
**SPECTRUM**  
— IN —  
**ELECTRONIC  
COMPONENTS**

1-800-831-4242  
WWW.JAMECO.COM

# Faster Expansion than Any Other Catalog Distributor!



Exciting changes are happening at Jameco! First, we believe our product offering is expanding faster than any other electronic component distributor in the US. And we're not stopping there! The industry's fastest growing product offering just keeps getting better. Look through this catalog for even more Top Brands at Jameco's Best-in-the-Business prices!

This catalog adds more of the brands you told us you need the most. Names like Fairchild, Avago, Bourns, AMP, Keystone, Renesas, Texas Instruments, Intel and many others. And with Jameco you don't need to search through 2,000 pages to find the products you want. We don't flood our catalog with every product the manufacturer makes just to please the manufacturer or to make our catalog thicker, when 80% of those parts are seldom needed.

Jameco's Product Managers go the extra steps to carefully select the industry's most frequently used product lines for the catalog. It makes it easier for you to find the products you need, and it also gives you the confidence that the products you find are available for immediate delivery. If you find a product in the Jameco catalog, it will be in stock at least 99% of the time. We believe no other distributor offers you such a high service level for same-day shipping. As such, you won't waste your time ordering products which cannot be immediately delivered.

We also offer tens of thousands of additional products on our website, many of which are added on a daily basis. So don't forget to check out [www.Jameco.com](http://www.Jameco.com) for more products regularly.

Design Engineers know that Jameco offers great service, selection and same-day shipping! Now you can get those same benefits with even more great brands...

*Bob Croshaw*

Bob Croshaw,  
CEO and President  
Jameco Electronics Ltd  
[BobC@Jameco.com](mailto:BobC@Jameco.com)



## NEW & EXPANDED MANUFACTURERS

3M	LAMBDA
AAVID	LITTELFUSE
ALCOSWITCH	LUMILEDS
AMP	LUMEX
AMPHENOL	MAXIM
ATMEL	MICROCHIP
AUGAT	MICRON
AVAGO	MICRO SEMI
AVX	MOLEX
BOURNS	NEC
BUCHANAN	ON SEMI
C&K	OSRAM
COMAIR ROTRON	PANASONIC
CONDOR	PHILIPS
CTS	POWER-ONE
CYPRESS	RAYCHEM
DALLAS	RENESAS
DIODES INC.	RIP TIE
EBM PABST	SANDISK
ELCO	SHARP
EXTECH	SILICONIX
FAIRCHILD	ST MICRO
FOX	TELEDYNE
GRAYHILL	TEXAS
IDT	INSTRUMENTS
INFINEON	TOSHIBA
INTEL	TYCO
INTERSIL	VISHAY
KEMET	WAKEFIELD
KEystone	

## RoHS Compliant Products

Over 80% of the products in this catalog are available in RoHS compliant versions for those shipping product to the European Union!

Products are coded for your convenience. RoHS compliant products are marked with the **R**. Many other products have a **⊕** to indicate both compliant and non-compliant versions are available. Simply add an R to the beginning of the non-compliant Part Number shown and you'll get the RoHS equivalent product at the best available market price.

Need more RoHS information? Visit our web site at [www.Jameco.com/RoHS](http://www.Jameco.com/RoHS).

### Contact Information

**Order Desk 24/7, 365 Days a Year**  
Phone: 1-800-831-4242  
Fax: 1-800-237-6948  
E-mail: [Sales@Jameco.com](mailto:Sales@Jameco.com)

**Technical Support**  
Phone: 1-800-831-4242  
E-mail: [Tech@Jameco.com](mailto:Tech@Jameco.com)

**Customer Service**  
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E-mail: [CustService@Jameco.com](mailto:CustService@Jameco.com)

**Credit Department**  
Phone: 650-592-8097  
E-mail: [Credit@Jameco.com](mailto:Credit@Jameco.com)

**International Order Desk**  
Phone: 650-592-8097  
Fax: 650-592-2503  
E-mail: [International@Jameco.com](mailto:International@Jameco.com)

**International Toll-Free Fax**  
Colombia: 980-9-136748  
Mexico: 001-800-593-1449  
Indonesia: 1-803-015-237-6948  
Brazil: 000-817-455-6119  
New Zealand: 080-044-0470

**The Jameco RobotStore**  
Phone: 1-800-374-5764  
Website: [www.RobotStore.com](http://www.RobotStore.com)

## Great Reasons to Buy from Jameco!

### HIGHEST IN-STOCK AVAILABILITY

Our history shows 99+% of the orders placed from this catalog will be shipped out the same day! We're not perfect, and we're sorry when we let a customer down. But none of our major competitors can come close to making this claim!

*In Stock*  
**99+%**  
*Always*

### THE BEST PRICES

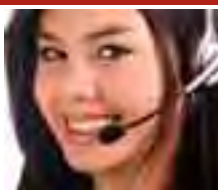


Being competitive is very important to our product marketing team. That's why they spend a tremendous amount of time and resources researching other cataloger's pricing to make sure we can live up to our much-talked-about *low-price guarantee*.

Simply stated, if you find a lower print-advertised price for a product, let us know. We'll offer you that product for 10% less than their price, right down to our cost!

### DEDICATED ACCOUNT REPRESENTATIVES

When you're placing orders on a regular basis, it's nice to have the same person represent you whenever you shop. At Jameco, we assign account representatives to assist regular buyers. And unlike other distributors, we offer this service to anyone needing an assigned representative to assist in regular purchases; not just to larger companies.



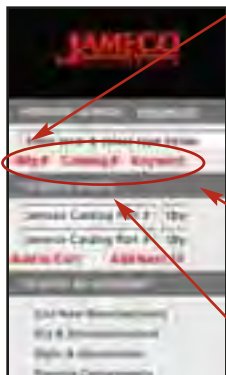
### EASY-TO-USE WEBSITE



All the products in this catalog and 10's of thousands of others are available to you on our website at [www.Jameco.com](http://www.Jameco.com). Simply enter the manufacturer's part number you need in the top left search box on the home page and click on the link labeled Mfg #. Our website will locate the product you're looking for and provide you with our renowned pricing and quantity breaks.

## New Web Search Capabilities!

Our search engine has been updated, allowing you a choice to request a specific manufacturer part number, a Jameco SKU number or a keyword / cross-reference.



#### Mfg #

To search by manufacturer number, just enter the number in the text box shown on the left and click on Mfg #. Jameco's website will display all the matching products we offer, regardless of manufacturer. Enter a portion of the part number and you'll get all the devices that contain that text.

#### Keyword

To find products containing a specific keyword, simply enter the text and click on Keyword. This search will also return applicable cross references.

#### Catalog #

Looking for a specific SKU from Jameco's catalog? Simply enter the number into the text box and click on Catalog #. Jameco's website will return the exact Manufacturer and Part Number referred to in the catalog.

### Late Additions .....321

### ICs & Semiconductors.....4-46

Analog, Discretes, Linear, Logic, Memory, MCUs, etc.

### Optos & Illumination.....47-66

Optoelectronic Components, LEDs, Lamps, Displays, etc.

### Passives .....67-117

Caps, Resistors, Potentiometers, Inductors, Crystals, etc.

### Wire & Cable .....118-132

Bulk Wire & Cable, Assemblies, Wire & Cable Management, etc.

### Interconnects .....133-174

Adapters, Connectors, Terminal Blocks, Sockets, etc.

### Electromechanical .....175-207

Motors, Switches, Relays, Sensors, Knobs, etc.

### Fans & Cooling.....208-211

DC Brushless and AC Tube Axial Fans, Guards, Filters, etc.

### Power Supplies & Wall Adapters..212-245

Switching Power Supplies, Wall Adapters, etc.

### Batteries .....246-249

Batteries, Battery Packs, Clips, Holders, Chargers, etc.

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Parallel and Serial LCD Modules

### Computer Products .....253-262

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### Security .....263-265

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### Electronic Design.....295-305

Programmers, Prototyping Systems, Breadboards, etc.

### Educational & Hobbyist .....306-312

Robotics, Solar, Educational Kits, Books, etc.

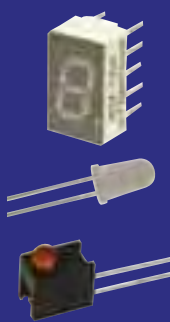
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### Product & Manufacturer Indices 315-320

### PRICES

Prices are effective 04-09-07.


Prices and discounts are subject to change without notice.



## Expanded Optoelectronics

Jameco has recently fortified its already strong Optoelectronic offering. Look for these exciting new products in the Opto Section.

- High Efficiency LED's*
- Seven-Segment Displays*
- Light Bars & Bar Graphs*
- Optical Sensors*
- Alpha Numeric Displays*
- 2 & 3 Channel Optical Encoders*
- Hermetically Sealed Optocouplers*



**SEE PAGES  
47-60**

## Belden PowerSense™ Power-Over-Ethernet Products

Belden PowerSense technology allows IP Telephones, Wireless LAN access points, Security cameras and other enterprise terminals, to safely receive power over standard Category 5, 5e or 6 LAN cabling without modification to existing infrastructure. We also stock a wide variety of Belden wire and cable on pages 118-121.



## Over 600 New Bourns Devices Added

Bourns legacy is built on Quality, Service and Customer Loyalty. Bourns is an industry leader in the design & production of passive components. Visit our Passive section to view Jameco's new lines

- Chip Resistor Arrays*
- Resettable Fuses*
- Cermet Trimming Potentiometers*



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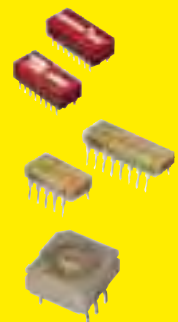
## Intel Products Just Added

Intel is a global leader in network computing technology and aids in the building of a new generation of innovative networking platforms. Check out Jameco's new networking products in the Semiconductor section.



*Ethernet Controllers*






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191**

## Over 200 Additional Grayhill Switches

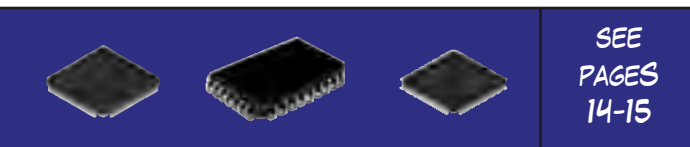
Grayhill is committed to developing & building high-quality switching components. Grayhill products will fulfill your mechanical switching needs, and Jameco now has more of them at great Jameco prices!

<i>Rotary</i>	<i>Rocker</i>
<i>DIP</i>	<i>Toggle</i>
<i>Joystick</i>	<i>Slide</i>
<i>Keypad</i>	<i>Pushbutton</i>



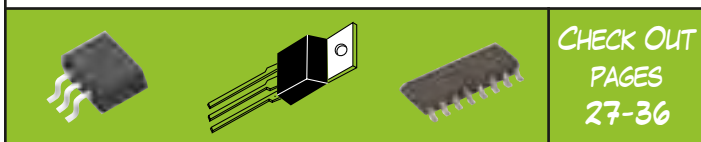
## New Renesas MCUs

Jameco is excited to announce they have recently added Renesas 16 & 32 bit Micro Controller Units to an already strong MCU offering. Renesas' 16 & 32 bit MCUs boast a wide array of on-chip peripherals and speeds up to 50MHz, while maintaining low power consumption. Features such as these cement Renesas' position as the global leader in MCU shipments.



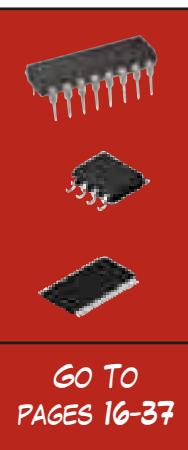
## More! National Semiconductor

National Semiconductor, the industry's premier analog company, creates high performance analog devices and subsystems. Now Jameco offers their leading-edge products including power management circuits, display drivers, audio and operational amplifiers, communication interface products and data conversion solutions.



## 700 New Texas Instruments Devices

Texas Instruments is the industry design leader of analog and digital signal processing products. Along with recently added DSP products and microcontrollers, Jameco's latest catalog additions include over 175 interface products, 100 power management devices, 40 data acquisition circuits and 300 logic chips. Please review the semiconductor section for Texas Instruments products.






## 250 Additional Maxim Products

Maxim has over 20 years of leadership experience developing, designing and manufacturing state of the art analog, mixed signal, high-frequency and digital circuits. Maxim's products provide the interface between the digital and analog physical world.

Voltage Detection/Conversion	A/D & D/A Converters
DC-DC Controllers	Power Supply Monitors
Analog Switches	Supervisory Chips
Swappable Interface	
Decoder/Driver	





**SEE PAGES  
26-37**

## Mean Well Power Supplies

Mean Well, a leading manufacturer of switching power supplies, has recently added to their lineup. Jameco is proud to announce the addition of the RSP-1000 and CLG-100 families to our May Catalog. The RSP-1000 has built-in active PFC and Parallel functions while the CLG-100 is built specifically for outdoor uses such as electric signs.

An index to our complete listing of switching power supplies, DC-DC converters, table-top power supplies, wall adapters, and transformers can be found in our power section starting on page 212. Take a look and see how Jameco's power solutions can benefit your design!





**NEW PRODUCTS  
ON PAGES  
219 & 224**



## New! ON Semi Products

Jameco has expanded its offering of high-quality ON Semiconductor products. Based on their corporate quality policy that states "We will exceed Customer Expectations with our Superior Products and Services", the company has earned numerous awards, including 2006 NEDA Manufacturer of the Year, 2006 Top 10 DC - DC Award from EPC, 2006 EDN Innovation Award, and numerous other awards.

Now you can get their popular Power Management, Amplifiers, Comparators, Analog Switches, Thyristors, Diodes, Rectifiers, Bipolar Transistors, FETs, Circuit Protection, Clock Management, Differential Logic (ECL) and Standard Logic all at one website: [www.Jameco.com](http://www.Jameco.com).



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## DID YOU KNOW

Jameco Electronics has a wide variety of Security products for office and personal use which allow you to monitor, track, and secure what is important to you. Jameco stocks off-the-shelf systems as well as individual components for a customized security solution. Versatility is the name of the game with many options including: indoor/outdoor, day/night, view/record, color/black & white, stationary/rotating, wired/wireless. We also inventory all the accessories necessary to complete any security project. Review the security section on pages 263-265 for our selection of cameras, monitors, recorders, sensors, mounting brackets, cables, modulators, and splitters.



## #1 in the Industry!

Over 99% of this catalog's products are in stock, so you can rest assured there will be no delays. We believe this service level is unmatched by anyone in the industry.



When you shop at Jameco, you're assured your products get to you faster! For starters, you can place your order with a live person, any time of day or night. Yes, we're there 24/7/365 to take your order by phone, fax, web or email, whichever is most convenient for you!

Place an order for any in-stock item in this catalog before 6 PM EST and we'll ship it out the same day! No questions asked, and no priority charges.

For years, Jameco has offered a solid price guarantee that no one seems to dispute. Why don't the other electronic components catalogers challenge it? We think because they



can't; the Jameco price guarantee is just that good! Simply stated, Jameco has the lowest prices you'll find in any catalog or advertisement—period.

So if you ever run into a print-advertised price that's lower than an identical item in our catalog, we'll not only match the lower price, we'll beat it by an additional 10%, right down to our cost. No fine print, and no questions asked!

In addition to offering popular name brands for BOMs and AVLs that require them, we also offer in-house brands. We offer professional-grade Jameco house brands of non-semiconductor products at substantially reduced prices; typically 20-30% below popular name brands.

These in-house brands offer a substantial savings versus the name brands, so you've got a real choice in product prices.

Jameco makes comparisons easier too! We offer side-by-side listings, allowing you to compare like products on the same catalog page.



Thousands of additional ICs are now available on our website.

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## PIC Microcontrollers

For more Microchip Microcontrollers  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
145111	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	\$6.59	\$4.39
145120	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.09	6.49
223790	PIC12F629-1/P	DIP-8	Flash	20	1k	64	6	1.49	1.25
223781	PIC12F675-1/P	DIP-8	Flash	20	1k	64	6	1.69	1.07
312514	PIC12F683-1/P	DIP-8	Flash	20	4k	128	6	2.19	2.05
323096	PIC16F505-1/P	DIP-14	Flash	20	1k	72	12	1.65	1.49
312531	PIC16F54-1/P	DIP-18	Flash	20	512	25	12	1.79	1.73
193439	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.29	2.85
193447	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.49	2.52
246756	PIC16F628-20I/P	DIP-18	Flash	20	2k	224	16	4.05	3.04
223749	PIC16F630-1/P	DIP-14	Flash	20	1k	64	12	1.89	1.67
247142	PIC16F648A-1/P	DIP-18	Flash	20	4k	256	16	3.25	2.55
223757	PIC16F676-1/P	DIP-14	Flash	20	1k	64	12	2.19	1.43
312590	PIC16F684-1/P	DIP-14	Flash	20	2k	128	12	2.55	1.54
312611	PIC16F688-1/P	DIP-14	Flash	20	4k	256	12	2.79	2.58
312670	PIC16F737-1/SP	DIP-28	Flash	20	4k	368	25	5.39	4.65
312717	PIC16F767-1/SO	SOIC-28	Flash	20	8k	368	25	6.69	5.63
312709	PIC16F767-1/SP	DIP-28	Flash	20	8k	368	25	6.29	5.36
193412	PIC16F76-1/SP	DIP-28	Flash	20	8k	368	5	7.15	5.65
312725	PIC16F777-1/P	DIP-40	Flash	20	8k	368	36	6.55	5.89
193421	PIC16F77-1/P	DIP-40	Flash	20	8k	368	8	5.25	4.79
223765	PIC16F818-1/P	DIP-18	Flash	20	1k	128	16	2.65	2.36
223773	PIC16F819-1/P	DIP-18	Flash	20	2k	256	16	2.85	2.35
193332	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.59	4.66
246861	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68	13	6.25	5.55
246895	PIC16F870-1/SP	DIP-28	Flash	20	2k	128	22	4.89	2.83
246924	PIC16F871-1/P	DIP-40	Flash	20	2k	128	33	5.15	4.25
246941	PIC16F872-1/SP	DIP-28	Flash	20	2k	128	22	4.35	3.26
246975	PIC16F873A-1/SP	DIP-28	Flash	20	4k	192	22	6.29	5.50
246991	PIC16F874A-1/P	DIP-40	Flash	20	4k	192	33	7.55	6.00
193367	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	6.79	4.85
247011	PIC16F876A-1/SP	DIP-28	Flash	20	8k	368	22	6.19	4.17
176882	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.29	8.05
247046	PIC16F877A-1/L	PLCC-44	Flash	20	8k	368	33	8.15	7.59
247038	PIC16F877A-1/P	DIP-40	Flash	20	8k	368	33	7.25	4.80
247097	PIC16F87-1/P	DIP-18	Flash	20	4k	368	16	3.39	3.15
312733	PIC16F88-1/P	DIP-18	Flash	20	7k	368	16	4.15	3.05
248111	PIC18F1320-1/P	DIP-18	Flash	40	4k	256	16	4.89	4.34
312303	PIC18F2525-1/SP	DIP-28	Flash	40	48k	3986	25	8.89	7.98
247994	PIC18F252-1/SP	DIP-28	Flash	40	16k	1536	23	8.05	6.60
248049	PIC18F452-1/L	PLCC-44	Flash	40	16k	1536	34	10.35	9.14
248031	PIC18F452-1/P	DIP-40	Flash	40	16k	1536	34	8.85	7.59
248057	PIC18F458-1/P	DIP-40	Flash	40	16k	1536	34	11.05	6.48
145040	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	1.49	.99
144258	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	1.49	1.09
193463	PIC12C672-04/P	DIP-8	OTP	4	2k	128	6	2.79	2.44
247361	PIC14000-4/SP	DIP-28	OTP	4	4k	192	22	11.99	11.45
128338	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	2.25	2.02
193341	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	3.06	1.97
193359	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.25	2.43
247880	PIC17C42A-16/L	PLCC-44	OTP	16	2k	232	33	10.39	10.10
193324	PIC16C63A-20/SP	DIP-28	OTP	20	4k	192	22	6.09	4.84
247599	PIC16C711-20/P	DIP-18	OTP	20	1k	68	13	3.65	3.60
247919	PIC17C44-33/P	DIP-40	OTP	33	8k	454	33	14.75	13.01

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Part No.	Product No.	Pkg.	Description	1	25
765118	ATMEGA8L-8PC	DIP-28	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 8MHz, C-temp	\$4.55	\$4.18
847391	ATMEGA8-16AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 16MHz, I-temp	★	Call
847367	ATMEGA8-16AC	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 16MHz, C-temp	4.39	4.05
847421	ATMEGA8-16PC	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 16MHz, C-temp	4.55	4.18
248330	ATMEGA8-16PI	DIP-28	8-bit MCU, 8kB flash, 16MHz, 23 I/O	5.05	4.05
323133	ATMEGA16-16PI	DIP-40	8-bit MCU, 16kB flash, 16MHz, 32 I/O, I-temp	6.25	3.91
847130	ATMEGA16L-8AC	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, C-temp	7.95	7.37
847164	ATMEGA16L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, I-temp	7.95	7.37
764756	ATMEGA16L-8MU	QFN-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, I-temp	★	Call
847041	ATMEGA16-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 16MHz, I-temp	7.95	7.37
764617	ATMEGA16-16PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 16MHz, I-temp	8.09	7.50
847228	ATMEGA32L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 32k flash, 32 I/O, 8MHz, I-temp	10.09	9.34
764810	ATMEGA32L-8MU	QFN-44	8-bit AVR <sup>®</sup> MCU, 32k flash, 32 I/O, 8MHz, I-temp	★	Call
847199	ATMEGA32-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 32k flash, 32 I/O, 16MHz, I-temp	10.09	9.34
764836	ATMEGA48V-10AI	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
764852	ATMEGA48V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
764879	ATMEGA48V-10MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847252	ATMEGA48-20AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
847332	ATMEGA64L-8AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 8MHz, I-temp	14.59	13.52
764895	ATMEGA64L-8MU	QFN-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 8MHz, I-temp	★	Call
847287	ATMEGA64-16AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 16MHz, I-temp	14.59	13.52
765071	ATMEGA88V-10AI	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
765097	ATMEGA88V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
765046	ATMEGA88-20AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
846989	ATMEGA128L-8AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 8MHz, I-temp	18.55	17.21
847017	ATMEGA128L-8MU	QFN-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 8MHz, I-temp	★	Call
846954	ATMEGA128-16AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 16MHz, I-temp	18.55	17.21
764676	ATMEGA162V-8PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 8MHz, I-temp	8.35	7.74
764633	ATMEGA162-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	8.25	7.62
764650	ATMEGA162-16PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	8.35	7.74
764730	ATMEGA168V-10AI	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847105	ATMEGA168V-10MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847076	ATMEGA168-20AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
764713	ATMEGA168-20MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
847308	ATMEGA644-20AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 64k flash, 32 I/O, 20MHz, I-temp	9.59	8.88
764799	ATMEGA2560V-8AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 8MHz, I-temp	22.15	20.56
764772	ATMEGA2560-16AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 16MHz, I-temp	22.15	20.56
764932	ATMEGA8515L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	6.35	5.90
764959	ATMEGA8515L-8JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, C-temp	6.49	6.02
764975	ATMEGA8515L-8JI	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	6.49	6.02
764916	ATMEGA8515-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 16MHz, I-temp	6.35	5.90
847455	ATMEGA8535L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 8MHz, I-temp	6.89	6.39
764991	ATMEGA8535-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, I-temp	6.89	6.39
765011	ATMEGA8535-16JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	7.05	6.51
765038	ATMEGA8535-16PC	DIP-40	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	7.05	6.51
765177	ATTINY11-6SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6MHz, C-temp	★	Call
765193	ATTINY11L-25C	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, C-temp	.77	.72
765214	ATTINY11L-2SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, I-temp	.77	.72
765265	ATTINY12V-1SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, C-temp	2.15	1.96
765281	ATTINY12V-1SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, I-temp	2.15	1.96
765249	ATTINY12L-4SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 4MHz, C-temp	2.15	1.96
847535	ATTINY12L-4SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 4MHz, I-temp	2.15	1.96
248170	ATTINY12-8PC	DIP-8	8-bit MCU, 1kB flash, 8MHz, 6 I/O	1.55	1.25
765231	ATTINY12-8SC	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 8MHz, C-temp	2.15	1.96
765345	ATTINY13V-10PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.75	1.59
765353	ATTINY13V-10PU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.75	1.59
765302	ATTINY13-20PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.75	1.59
765311	ATTINY13-20SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.59	1.47
765329	ATTINY13-20SSI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.75	1.59
765337	ATTINY13-20SU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.59	1.47
248196	ATTINY15L-1PC	DIP-8	8-bit MCU, 1kB flash, 16MHz, 6 I/O	1.85	1.18
765361	ATTINY15L-1PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 1.6MHz, I-temp	2.75	2.55

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765425	ATTINY26L-8SC	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, C-temp	\$2.95	\$2.70
847623	ATTINY26L-8SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.95	2.70
847658	ATTINY26L-8SU	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.95	2.70
765417	ATTINY26-16SC	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 16MHz, C-temp	2.95	2.70
689039	ATTINY2313V-10PU	DIP-20	8-bit MCU, 2kB flash, 10MHz, 18 I/O, I-temp	2.19	1.75
765396	ATTINY2313V-10SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.65	2.45
765409	ATTINY2313V-10SU	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.65	2.45
765370	ATTINY2313-20MU	QFN-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	★	Call
1537061	ATTINY2313-20PU	DIP-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.09	2.02
847578	ATTINY2313-20SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
847594	ATTINY2313-20SU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
765388	ATTINY2313-20SU SL383	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
248217	ATTINY26-16PC	DIP-20	8-bit MCU, 2kB flash, 16MHz, 16 I/O	2.05	1.23
765433	ATTINY45V-10SU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 4k flash, 6 I/O, 10MHz, I-temp	2.49	2.31
323141	ATMEGA8515-16PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.59	3.40
395621	ATMEGA8515L-8PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.49	3.37
763534	AT80C32X2-RLTUL	VQFP-44	8-bit MCU, 8k-bytes ROM/OTP romless, I-temp	★	Call
763551	AT88SC0808C-PU	DIP-8	8-bit MCU, 8k-bit crypto memory, I-temp	.76	.79
168874	AT89C2051-24PC	DIP-20	8-bit MCU, 2kB flash, 24MHz, 15 I/O	2.29	1.70
763614	AT89C2051-12SU	SOIC-20	8-bit MCU, 2kB flash, 15 I/O, 12MHz, I-temp	1.69	1.59
204089	AT89C4051-24PC	DIP-20	8-bit MCU, 4kB flash, 24MHz, 15 I/O	1.79	1.48
845791	AT89C2051-24PI	DIP-20	8-bit MCU, 2kB flash, 15 I/O, 24MHz, I-temp	1.67	1.39
323109	AT89C4051-24SC	SOIC-20	8-bit MCU, 4kB flash, 15 I/O	1.75	1.25
168911	AT89C51-24JC	PLCC-44	8-bit MCU, 4kB flash, 24MHz, 32 I/O	3.79	3.39
168903	AT89C51-24PC	DIP-40	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.95	4.35
168920	AT89C52-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	3.45	2.85
763631	AT89C5131A-RDTIM	VQFP-64	8-bit flash MCU w/ full speed USB device, I-temp	★	Call
763681	AT89C51RD2-RLTIM	VQFP-44	8-bit flash MCU, four 8-bit I/O ports, I-temp	★	Call
763711	AT89C51SD1C-ROTL	TQFP-80	Single chip flash MCU, 64k flash, I-temp	★	Call

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## Programming & Customizing PICmicro Microcontrollers

### Second Edition

**McGraw-Hill** Details the features of the PICmicro<sup>®</sup> and how to use these embedded chips to access and control many different devices. This book shows what happens within the PICmicro<sup>®</sup> when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

Includes: PIC PCB

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183046	PICmicro Programming	9.2" x 7.3"	4.0	\$49.95

## PIC Microcontroller Project Book

### Comprehensive Beginner's Guide

**McGraw-Hill** Hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000)

Part No.	Description	Size	Wt. (lbs.)	Price
174650	PIC Beginner's Guide	7.3" x 9.2"	1.0	\$29.95

## Serial Communications

### Serial Communications PIC Applications

**Square 1 Electronics** Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications and synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
210497	Serial Communications	8.6" x 11"	3.5	\$49.95



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Part No.	Product No.	Pkg.	Description	1	10
763737	AT89C55WD-24JI	PLCC-44	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	★	Call
845919	AT89C55WD-24JU	PLCC-44	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	5.45	4.89
763753	AT89C55WD-24PI	DIP-40	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	★	Call
763770	AT89L552-16JC	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 16MHz	2.29	2.22
355830	AT89S51-24PC	DIP-40	8-bit MCU, 4kB flash, 33MHz, 32 I/O	2.10	1.58
763817	AT89S51-24PI	DIP-40	8-bit MCU, 4kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
220871	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB flash, 33MHz, 32 I/O, I-temp	1.85	1.49
845943	AT89S52-24JC	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz	2.99	2.53
845978	AT89S52-24JU	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	2.99	2.69
763825	AT89S52-24PI	DIP-40	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
763841	AT89S52-24PU	DIP-40	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
662637	AT89S52-24PC	DIP-40	8-bit MCU, 8kB programmable flash	2.15	1.62
168946	AT89C55WD-24PC	DIP-40	8-bit MCU, 20kB flash, 24MHz, 32 I/O	6.59	4.94
204097	AT89S8252-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	5.95	5.35
846006	AT89S8253-24AI	TOFP-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
763868	AT89S8253-24AU	TOFP-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
846031	AT89S8253-24JI	PLCC-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	5.55	5.29
846057	AT89S8253-24JU	PLCC-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	5.55	5.29

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699077	MSP430F169IPM	QFP-64	60kB + 256kB flash, 2kB RAM, 48 I/O	★	Call	Call
699000	MSP430F1232IPW	TSSOP-28	8kB + 256kB flash, 256kB RAM, 14 or 22 I/O	4.95	4.67	4.54

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## Easy Microcontrol'n

### Beginners Guide (Version 4)

**Square 1 Electronics** A revision of and successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting. (178 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
215061	Easy Microcontrol'n	8.5" x 11"	1.2	\$40.89

## Time'n and Count'n

### Intermediate Level PIC Applications

**Square 1 Electronics** This book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC16C63. Topics such as test equipment for timing & counting experiments to using timer 1 & 2, and capture/compare/PWM as well as programs are included in this book. (218 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
210489	Time'n and Count'n	8.5" x 11"	1.4	\$34.95

## Microcontrol'n Apps

### PIC Microcontroller Applications (Version 2)

**Square 1 Electronics** This book is a revision of and the successor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital voltmeter experiment, PIC16F87x and 10-bit A/D conversion. (437 pgs, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
215052	Microcontrol'n Apps	8.5" x 11"	1.7	\$44.95

## PIC BASIC Programming and Projects

**Newnes Publications** The BASIC language, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running - designing and building circuits using a microcontroller. (210 pages, 2001)

Part No.	Description	Size	Wt. (lbs.)	1	10
200168	PIC BASIC Programming	6.1" x 9.2"	0.8	\$40.89	\$38.85

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## NXP/PHILIPS MCUs

Part No.	Product No.	Pkg.	Description	1	10
854541	P80C31SBBB	POFP-44	128 x 8 RAM ROMless, LV (2.7V-5.5V), LP, hi-speed (16MHz)	\$2.09	\$1.95
917337	P80C32UFAA	PLCC-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz), I-temp	2.25	2.00
917361	P80C32UFBB	POFP-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz)	2.55	2.34
854575	P80C51FA-4A	PLCC-44	8-bit MCU, ROMLESS, LV (2.7V-5.5V), LP, hi-speed (16MHz)	6.15	5.72
854604	P80C55EFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (16MHz), I-temp	14.55	13.57
854639	P80C552IFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (24MHz), I-temp	15.09	14.07
854655	P80C557E4FB	POFP-80	8-bit single chip, 3.5MHz - 16MHz, I-temp	21.29	19.86
854680	P80C592FAA	PLCC-68	8-bit w/ on-chip CAN, 1.2MHz - 16MHz, w/o ROM, I-temp	22.89	21.35
854719	P87C51FA-4A	PLCC-64	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	7.55	7.03
854743	P87C51FA-5A	PLCC-44	8-bit, 3k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (0-16MHz)	8.35	7.76
854778	P87C51MB2A/O2-S	PLCC-44	8-bit w/ extended memory, 64kB/96kB OTP w/ 2kB/3kB RAM	7.85	7.39
854831	P87C51RA+IA	PLCC-44	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (33MHz)	5.35	4.96
854882	P87C51RD+4A	PLCC-44	8-bit, 64k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	10.59	9.87
854903	P87C52SBBB	QTP-44	8-bit, 4kB OTP/ROM, 128/256 B RAM, LV (2.7V-5.5V), LP, hi-speed (16MHz)	3.55	3.28
854938	P87C554FAA	PLCC-68	8-bit, 16k/512 OTP/ROM, 8-ch, 10-bit A/D, I2C PM, (16MHz), I-temp	19.85	18.50
854962	P87C591VFAA	PLCC-44	Single chip 8-bit w/ CAN controller	9.59	9.05
917409	P87LPC762BD	SOIC-20	LP w/ 2kB OTP, 20MHz (5V) / 10MHz (3V)	2.39	2.23
854997	P87LPC764BDH	SOIC-20	LP w/ 4kB OTP, 20MHz (5V) / 10MHz (3V)	2.59	2.39
855025	P87LPC769HD	SOIC-20	LP w/ 4kB OTP, 8-bit A/D & DAC, 20MHz (5V) / 10MHz (3V)	★	Call
855050	P89C660HBB	LQFP-44	8-bit, 16kB SPI/ISP flash, 512B RAM, 20MHz - 33MHz	9.49	8.86
855252	P89V51RD2FA	PLCC-44	8-bit, 5V LP, 64kB flash, 1kB RAM, I-temp	6.35	5.98
855279	P89V51RD2FBC	TOFP-44	8-bit, 5V LP, 64kB flash, 1kB RAM, I-temp	7.79	7.26
917652	PCF8582C2D	SOIC-8	256 x 8 CMOS EEPROM w/ I2C bus interface	1.02	.86
917687	PCF8583PN	DIP-8	Clock calendar w/ 240 x 8 RAM	2.85	2.61
917716	PCF8583TD	SOIC-8	Clock calendar w/ 240 x 8 RAM	2.19	2.13

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## 80C/87C MCU Series

Part No.	Cross Ref.	Pkg.	Description	1	10
114403	DS80C320-MCG	DIP-40	High speed LP micro	\$12.09	\$9.27
345367	DS87C520-MCL	DIP-44	EPROM/ROM MCU, high-speed	27.99	26.38
345359	DS87C520-WCL	DIP-40	EPROM/ROM MCU, high-speed	51.59	44.69
345341	DS87C530-QNL	PLCC-52	EPROM/ROM MCU w/ real-time clock	36.25	32.59



## MCUs

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Part No.	Product No.	Pkg.	Description	1	10
793750	MC68HC705J1ACPE	DIP-20	8-bit, 64b RAM/1240b EPROM, 14 I/O, I-temp	\$3.49	\$2.65
793901	MC68HC980T2CPE	DIP-8	8-bit, 1.5kB flash, 128b RAM, 8-bit 4-ch A/D converter	★	Call
793995	MC705C8ACPE	DIP-40	8-bit, on-chip oscillator, 24-bidirectional I/O & 7 input lines	9.45	8.47
794015	MC705C9ACPE	DIP-40	352b RAM, 15k EPROM, 31 I/O, on-chip osc.	11.79	11.67
794031	MC705J1ACDWE	SOIC-20	8-bit, 1240b EPROM, 164b RAM, 14 I/O, on-chip osc.	2.99	2.74
797988	MC908J1ECDWE	SOIC-20	8-bit, 1.5kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	2.85	2.37
798008	MC908J3CEDWE	SOIC-20	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	2.99	2.92
798016	MC908JL3CEDWE	SOIC-28	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798032	MC908JL3ECPE	DIP-28	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798059	MC908JL8CDWE	SOIC-28	8-bit, 8kB flash, 256b RAM, 13-ch 8-bit ADC, 26 I/O	5.35	5.22
798091	MC908Q2ACPE	DIP-8	8-bit, 1.5kB flash, 6-ch 10-bit ADC	★	Call
798112	MC908Q2AMFOE	DFN-8	8-bit, 1.5kB flash, 6-ch 10-bit ADC	★	Call
798139	MC9508Q64CFOE	DFN-8	8-bit, 4kB flash, 256b RAM, 4-ch ADC, 4 I/O	★	Call
798198	MCH705JP7CDWE	SOIC-28	6k EPROM, 224b LP RAM, 14 I/O	5.45	5.14
798235	MCH908QY4CDWE	SOIC-16	8-bit, 4kB flash, 6-ch 10-bit ADC	★	Call
871949	MC705P6ACDWE	SOIC-28	4kB EPROM, 176b RAM, 4-ch 8-bit ADC, 20 I/O	4.45	4.02

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- Speed: 40MHz

Part No.	Product No.	Pkg.	MIPS	Program Mem. Bytes	SRAM Bytes	1	25
321787	DSPIC30F2010-20I/SOG	SOIC-28	20	12k	512	\$8.75	\$7.90
321779	DSPIC30F2010-20I/SPG	DIP-28	20	12k	512	8.75	7.90
321808	DSPIC30F2010-30I/SOG	SOIC-28	30	12k	512	10.09	9.09
321795	DSPIC30F2010-30I/SPG	DIP-28	30	12k	512	10.09	9.09
321816	DSPIC30F6010-20I/PF	TQFP-80	20	144k	8192	26.35	23.70
321824	DSPIC30F6010-30I/PF	TQFP-80	30	144k	8192	28.99	26.15
321832	DSPIC30F6011-20I/PF	TQFP-64	20	132k	6144	22.49	19.60
321841	DSPIC30F6011-30I/PF	TQFP-64	30	132k	6144	25.85	21.65
321859	DSPIC30F6012-20I/PF	TQFP-64	20	144k	8192	22.65	20.35
321867	DSPIC30F6012-30I/PF	TQFP-64	30	144k	8192	27.95	24.15
323053	DSPIC30F6013-20I/PF	TQFP-80	20	132k	6144	23.49	20.85
323061	DSPIC30F6013-30I/PF	TQFP-80	30	132k	6144	27.45	24.00
323070	DSPIC30F6014-20I/PF	TQFP-80	20	144k	8192	25.29	23.10
323088	DSPIC30F6014-30I/PF	TQFP-80	30	144k	8192	29.29	25.49

## Digital Signal Processors



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Part No.	Product No.	Pkg.	Description	1	10	100
700103	TMS320C203PZ80	TQFP-100	288 RAM, 256 data/prog RAM, 64k I/O	\$13.39	\$12.99	\$12.54
700111	TMS320C25FNL	PLCC-68	544 RAM, 4k ROM/EPROM, 64k data/prog	39.79	36.33	33.99
700138	TMS320C31PQL60	BQFP-132	32-bit floating point processor	69.99	65.99	59.99
700154	TMS320C32PCM60	QFP-144	Enhanced 32-bit floating point proc.	32.99	31.29	30.59
700162	TMS320C32PCMA50	QFP-144	Enhanced 32-bit floating point proc.	34.99	33.79	32.89
700189	TMS320C6201GJC200	FC/CSP-352	Fixed-point DSP	156.99	153.99	149.13
700197	TMS320C6711DGP200	BGA-272	Floating-point DSP	30.99	30.59	29.99
700200	TMS320C6713BGDP225	BGA-272	Floating-point DSP	47.99	46.99	45.99
700226	TMS320F240PQA	BQFP-132	DSP controller	27.99	26.39	25.59
700234	TMS320F2811PBKA	LQFP-128	Digital signal processor	27.99	26.69	25.99
700269	TMS320LF2406APZA	LQFP-100	DSP controller	15.99	15.13	14.75
700277	TMS320VC33PGE120	LQFP-144	32-bit floating point processor	19.99	19.39	18.89
700285	TMS320VC33PGE120	LQFP-144	32-bit floating point processor	23.99	23.27	22.69
700293	TMS320VC5402PGE100	LQFP-144	Fixed-point DSP	12.59	11.25	10.15
700306	TMS320VC5409PGE100	LQFP-144	Fixed-point DSP	18.99	18.57	18.09
700331	TMS320VC5416PGE160	LQFP-144	Fixed-point DSP	49.95	48.65	47.39
700349	TMS320VC5441GGU	BGA-169	Fixed-point DSP	199.99	197.99	193.03
700357	TMS320VC5502PGF300	LQFP-176	Fixed-point DSP	17.15	16.67	16.25
700390	TMS32C6414EGLZA6E3	FCBGA-532	Fixed-point DSP	214.69	208.99	204.05
700402	TMS32C6415EGLZ6E3	FCBGA-532	Fixed-point DSP	193.99	188.69	183.99
700411	TMS32C6713BGDPA200	BGA-272	Floating-point DSP	48.99	47.85	46.59

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## Z80 MPUs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
35561	Z80	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.67	\$1.43	\$1.31
35596	Z80A	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609	Z80A-CTC	DIP-28	4MHz counter timer circuit (MK3882-4)	2.19	1.97	1.75
35625	Z80A-DART	DIP-40	4MHz dual asynchronous receiver/trans	3.49	3.19	2.89
35641	Z80A-PIO	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79	1.61
35668	Z80A-SIO/O	DIP-40	4MHz serial I/O (TxCB & RxCB bond.) MK3884-4	2.19	1.79	1.59
35705	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280428	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	8.05	7.26	5.08
35781	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.98	4.19	3.06
280516	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.35	3.05	2.28
61786	Z85C3008PSC	DIP-40	Serial communications controller	4.99	4.57	3.92

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## 6500 Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191	6502	DIP-40	CPU, 8-bit, 1MHz	<del>\$6.75</del> \$5.75	\$4.89	\$4.16
43166	65C02	DIP-40	CPU, 8-bit, 1MHz	5.95	4.45	3.10
43254	6522	DIP-40	Versatile interface adapter, 1MHz	4.05	3.25	2.95
43297	6532	DIP-40	RAM I/O timer, 1MHz	7.95	6.99	6.49
43318	6551	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.36	2.52

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## 6800/68000 N-MOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481	6800	DIP-40	CPU, 8-bit, 5V, 2MHz	\$6.95	\$5.25	\$3.65
43502	6802	DIP-40	CPU, 8-bit, 5V, 1MHz	9.85	8.87	7.99
43529	6803	DIP-40	CPU, 8-bit, 5V, 1MHz	7.79	6.99	6.29
43537	MC6808	DIP-40	CPU, 8-bit, 7V, 1MHz	<del>\$8.95</del> 7.65	6.50	5.53
43545	6809E	DIP-40	CPU, 8-bit, 7V, 1MHz	4.39	3.99	3.61
320590	68B09E	DIP-40	CPU, 8-bit, 7V, 2MHz	4.74	4.04	3.03
43561	6810	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.54	3.18	2.87
43596	6821	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.59	3.25
43414	68B21	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49	4.05
43617	6840	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.49	2.25	1.99
43633	6850	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	2.55	2.24	2.02
25304	MC68000L8	DIP-64	CPU, 16-bit, 7V, 8MHz	10.05	8.90	8.12
25291	MC68000L10	DIP-64	CPU, 16-bit, 7V, 10MHz	13.45	11.49	8.59
25355	MC68701	DIP-40	MCU, 8-bit, 29 I/O, 2MHz	15.95	13.95	12.55
25363	MC68705P3S	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95	20.65
25371	MC68705U3S	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	26.95	22.94	20.65

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## 6800/68000 CMOS

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$8.85	\$7.25	\$6.55
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	11.39	9.18	8.27
698710	MC68HC1621CEH16	PQFP-132	MCU, 16-bit, 8/10-bit ADC, 16.78MHz	20.85	19.86	18.91
248647	MC68HC705C8ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	8.35	6.15	5.80
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	8.65	7.35	5.51
132484	MC68HC705C8S	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	38.95	34.95	26.21
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	2.51	2.27	2.15
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	15.85	12.29	11.06
323213	MC68HC908GR8CP	DIP-28	MCU, 8-bit, 21 I/O, 8MHz	6.85	5.79	5.46
323192	MC68HC908JK1CP	DIP-20	MCU, 8-bit, 15 I/O, 8MHz	2.45	2.18	1.91
248428	MC68HC908KX8CP	DIP-16	MCU, 8-bit, 13 I/O, 8MHz	5.35	4.85	4.65
323221	MC68HC912B32CFU8	QFP-80	MCU, 8-bit, 15 I/O, 2MHz	<del>\$20.55</del> 18.89	18.69	18.48



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## 8000 N-MOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844	8031♣	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.45	\$3.15	\$2.80
102197	8032	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.59	3.25
51861	8035♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.59	3.25
51959	8039♣	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	4.49	3.82	2.86
51983	8049♣*	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	2.49	2.19	1.99
51991	8051AP♣**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	5.49	4.99	4.49
52003	8052AH**	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	7.99	7.19	6.49
52046	8080A♣	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.25	4.62	4.20
52062	8085AH♣	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	5.69	5.12	4.55
52071	8085AH-2♣	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.99	4.49
52100	8086-2♣	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.59
52142	8088♣	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.49	2.25	1.99
52169	8088-2♣	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	5.95	5.39	4.85
34358	UPD70108-8♣	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	10.99	9.34	7.01
52290	8155	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.82	2.86
52302	8155-2♣	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	5.95	5.39	4.85
52468	8212♣	DIP-24	I/O port timer, 8-bit, 3MHz	6.49	5.99	5.49
52484	8216	DIP-16	Bi-directional bus driver	3.95	3.36	2.52
52492	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513	8228	DIP-28	System contr./bus driver	3.69	3.19	2.36
52581	8243♣	DIP-24	I/O expander	5.49	4.94	3.71
52610	8250A♣	DIP-40	UART	3.45	3.65	3.10
52644	8251♣	DIP-28	USART	2.99	2.69	2.39
52652	8251A♣	DIP-28	USART	4.09	3.80	3.49
52679	8253♣	DIP-24	Prog. interval timer, 2MHz	3.19	2.89	2.59
52687	8253-5♣	DIP-24	Prog. interval timer, 2MHz	4.99	4.49	3.99
52708	8254♣	DIP-24	Prog. interval timer, 8MHz	4.79	4.27	3.84
52716	8254-2♣	DIP-24	Prog. interval timer, 8MHz	9.19	7.81	5.86
52724	8255♣	DIP-40	CPU peripheral, 2MHz	4.49	3.99	3.49
52732	8255A-5♣	DIP-40	CPU peripheral, 5MHz	4.89	4.39	3.05
291805	8255AC-5♣	DIP-40	CPU peripheral, 4MHz	4.89	4.39	2.89
52759	8256♣	DIP-40	UART	19.99	17.99	16.19
52775	8259♣	DIP-28	Prog. interrupt controller	1.75	1.55	1.45
52783	8259-5♣	DIP-28	Prog. interrupt controller	2.49	2.19	1.99
52839	8279♣	DIP-40	CPU peripheral, 5MHz	12.99	11.99	10.99
52847	8279-5♣	DIP-40	CPU peripheral, 5MHz	12.95	11.69	10.49
52855	8282♣	DIP-20	Octal latch bus driver	5.69	4.84	3.63
52871	8284A♣	DIP-18	Clock generator/driver, 8MHz	4.69	4.19	3.77
52898	8286	DIP-20	Octal bus transceiver	4.09	3.73	3.38
52901	8287	DIP-20	Octal bus transceiver	10.19	9.26	6.95
699624	P82B96TD♣	SOIC-8	Dual bidirectional bus buffer	★	Call	Call
53014	8742	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	10.14	8.64	7.62
53022	8748♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.89	14.32	12.66
53031	8748H♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	17.69	16.11	14.44
53057	8749H♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	24.39	20.67	16.92
53081	8751H♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	21.25	18.06	15.35
53090	8755	DIP-40	EPROM with I/O	8.95	8.09	7.29

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ♣ Pull = Extra Savings ♠ Refurbished = Backed by Jameco

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## 8000 CMOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51676	80C31♣	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	\$2.99	\$2.42	\$1.45
108804	80C32-1♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	4.49	3.85	2.89
51692	80C39♣	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	3.59	3.23	2.91
125647	80C52BASIC♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	32.75	29.47	26.51
51705	80C85A-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	7.25	6.55	5.85
52193	81C55♣	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.59	3.19
52370	82C51A♣	DIP-28	USART	3.95	3.50	3.04
52388	82C53-5	DIP-24	Prog. interval timer, 8MHz	3.45	3.65	3.10
52396	82C54	DIP-24	Prog. interval timer, 8MHz	3.66	3.12	2.34
52409	82C54-2	DIP-24	Prog. interval timer, 10MHz	4.49	4.05	3.59
52417	82C55A	DIP-40	CPU peripheral, 5MHz	4.99	4.49	3.99
52425	82C55A-5	DIP-40	CPU peripheral, 5MHz	4.59	4.07	3.56
52978	87C51♣	DIP-40	MCU, 8-bit, 32 I/O, 33MHz	21.99	18.69	14.02
196120	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	5.09	4.62	4.20

♣ Pull = Extra Savings ♠ Refurbished = Backed by Jameco

## NXP / PHILIPS 8000 CMOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
699544	P80C31SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	\$2.09	\$1.95	\$1.83
699552	P80C31SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	★	Call	Call
699561	P80C32SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	2.15	1.84	1.52
699579	P80C32SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	★	Call	Call
699587	P80C32UBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 33MHz	2.15	2.09	2.03
699595	P80C52EBA♣	PLCC-68	MCU, 8-bit, 16MHz, 10-bit A/D	9.85	9.54	9.25
699608	P80C52IBA♣	PLCC-68	MCU, 8-bit, 24MHz, 10-bit A/D	10.25	9.92	9.63
699641	P87C51RB-4A♣	PLCC-44	MCU, 8-bit, four 8-bit I/O, 16MHz	5.39	5.25	4.28
699659	P87C51SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	2.69	2.50	2.11
699667	P87C51SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	★	Call	Call
699675	P87C52BAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	3.19	3.01	2.52
699683	P87C52FAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	3.49	3.25	2.76
699721	P87LPC74BD♣	SOIC-20	MCU, low-power, 4kbyte OTP	2.25	2.17	1.83

★ Please call or visit our website for minimum order quantity and pricing

## Voice Chips

### Single-Chip Voice Record/Playback Devices

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- Typical 100k record cycles, 1µA standby current and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated



107334

Part No.	Product No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	\$5.99	\$5.49	\$4.96
107334	ISD1420P	Voice record/playback (20 sec.)	6.85	5.75	4.65
120643	ISD2560P	Voice record/playback (60 sec.)	10.49	9.49	7.65
120660	ISD2590P	Voice record/playback (90 sec.)	11.85	9.68	7.45
141655	ISD25120P	Voice record/playback (120 sec.)	11.75	9.58	9.44



## 80C52-Basic Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647	80C52BASIC♣	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.75	\$29.47	\$26.51

## Intel Ethernet Controllers

NEW

For more Intel Ethernet Controllers  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10
875923	FW82546EB♣	BGA-364	Dual port Gigabit ethernet controller	★	Call
875940	FW82546GB♣	BGA-364	Dual port Gigabit ethernet controller	★	Call
875982	GD82559/S�3HD♣	BGA-196	Fast ethernet multifunction PCI/CardBus	★	Call
876002	GD82559ER♣	BGA-196	Fast ethernet PCI controller	★	Call
876029	GD82559ER/S�3TU♣	BGA-196	Fast ethernet 10/100 PCI controller	★	Call
789241	GDŁX79785MBC.D0♣	BGA-196	8-port ethernet transceiver	★	Call
789259	HL82571EB♣	FCBGA-256	PRO/1000 Gigabit ethernet controller	★	Call
876061	NH82546GB♣	BGA-364	Dual port ethernet controller	★	Call
789451	RC82540EM♣	TFBGA-196	Gigabit ethernet controller	★	Call
876176	RC82545GM♣	BGA-364	Gigabit ethernet controller	★	Call
876230	SLXT970AQC♣	QFP-64	10/100 BaseT ethernet trans.	★	Call
876299	WJLX971ALE.A4♣	LQFP-64	100 BaseTX ethernet transceiver	★	Call
876301	WJLXT972MLC.A4♣	LQFP-64	3.3V ethernet transceiver	★	Call
875886	FW21154AE♣	BGA-304	PCI-PCI bridge, 64-bit, 33MHz	★	Call
875907	FW21154BE♣	BGA-304	PCI-PCI bridge, 64-bit, 66MHz	★	Call
875860	DA82562ET♣	SSOP-48	10/100 Mbps platform LAN connect	★	Call
789161	EELXT901APC.A4♣	PLCC-44	10BaseTX transceiver	13.05	10.90
789380	PR21154BE SL7T9♣	BGA-304	PCI-PCI bridge, 64-bit, 33MHz	★	Call

★ Please call or visit our website for minimum order quantity and pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

For more Intel Controllers visit our website at [www.Jameco.com](http://www.Jameco.com)

♣ RoHS compliant product Ⓢ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Thousands of additional ICs are now available on our website.

## PARALLAX 50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10	100
162931	SX28AC/DP 	DIP-28 50MIPS SX microcontroller	\$4.99	\$4.89	\$4.79

## PARALLAX BASIC Stamp

They are ideal for controller apps including robotics, radio-controlled interfaces of a digital camera, industrial pallet stackers, health monitoring systems, and much more. The BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. It allows you to store data in the EEPROM before downloading a BASIC program.

- EEPROM: 2048 bytes
- Cur. draw @ 5V: 8mA run/100µA
- Microcontroller: PIC16C57
- Program speed: 4000/sec.
- # of I/O pins: 16 + 2 serial
- RAM: 32 bytes
- Volts required: 5-15VDC
- Size: 1.2"L x 0.6"W
- Package: 24-pin DIP



**Includes:** Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Part No.	Parallax No.	1	10
130892	BS2-IC 	\$48.95	\$43.95

## PARALLAX BASIC Stamp 2P Modules

In addition to the BS2-SX (below) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.


- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- EEPROM program size: 2k x 8, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep
- Scratch pad RAM: 128 bytes

Part No.	Parallax No.	No. of I/O Pins	1	10
184911	BS2P24-IC 24-pin 	16 + 2 serial	\$78.95	\$70.95
184920	BS2P40-IC 40-pin 	32 + 2 serial	87.95	79.95

## PARALLAX 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- EEPROM program size: 2k x 8, 4,000 instructions
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC

Part No.	Parallax No.	No. of I/O Pins	1	10
159775	BS2SX-IC 24-pin 	16 + 2 serial	\$58.95	\$52.95


## PARALLAX Wi-Fi Application Kit

Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system.

Includes a Linksys Wi-Fi card, RCM3100 microprocessor core module, prototyping board, Dynamic C® development system and complete documentation on CD-ROM, serial cable for programming and debugging, 10-pin DB15 Conversion Cable, manuals and AC adapter (U.S./Canada only).


### Applications


- Wireless automation and control
- Convenient data and event logging
- Instrumentation monitoring

Part No.	Description	Wt. (lbs.)	Price
321681	Wi-Fi application kit 	2.0	\$568.95

Additional ICs are available at [www.Jameco.com](http://www.Jameco.com)



 RoHS compliant product



 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
 New Sale Lower\$ QtySave

## PARALLAX GSM/GPRS and M2M Application Kits

This kit provides all the tools necessary to sample and develop applications that combine a Rabbit-based control device with a GSM/GPRS modem. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore Module (RCM) that can interpret messages as commands and in turn execute control functions.



Part No.	Description	Wt. (lbs.)	Price
321584	GSM/GPRS app. kit w/ Enfora modem 	2.0	\$636.05
321197	Machine to machine (M2K) kit w/ Wavecom modem 	2.0	663.95

## PARALLAX Multi-Port Serial to Ethernet Kit

The Rabbit Serial-to-Ethernet Kit provides the hardware and software necessary for sensors and other serial devices to communicate via a LAN or other network. This kit allows you to simultaneously connect several serial devices to a network. This kit also includes a prototyping board, Dynamic C® development environment including a royalty-free TCP/IP stack with source code, sample applications, temperature sensor demo-board, required cables, and assorted accessories.



- Features**
- Royalty-free TCP/IP stack with source code
  - Serial to ethernet applications for: digital voltmeter and temperature sensor reader and binary and hexadecimal ASCII
  - Configuration menu system
- Design Advantages**
- Software compatible with other Rabbit-based products
  - Minimal ethernet experience required
  - 3 step setup

Part No.	Description	Wt. (lbs.)	Price
321656	Multi-Port serial to ethernet app. kit 	2.0	\$375.25

## Microprocessor Starter Kit



This Microprocessor Starter Kit is designed to work with several different forms of applications via system control: commands and feedback, data acquisition, and custom hardware setups specific to user requirements. Whether you are an embedded systems expert, or an electronics novice, Imagine Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product and/or application.



- 256k FLASH/128k SRAM
- Input voltage: 24-40VAC, 7-40VDC
- 4 serial ports
- 33 digital I/O ports
- Current draw: 43mA typ.@12V, 16mA typ.@40V

**Kit Includes:** RCM3610 module with Rabbit 300A microprocessor, starter board, software CD, hardware, and power supply.

Part No.	Description	Price
354992	Microprocessor starter kit	\$94.05

## Ethernet Starter Kit



This starter kit is ideal for hobbyists, students and inventors who want to learn about C programming, TCP/IP programming and interfacing electronic devices with microprocessors. Fun and useful application projects take you step-by-step through hardware and software development. Create new applications such as a WAV file player, DC and stepper motor controller, GPS clock, and much more.



- Current draw: 43mA typ. @ 12V, 16mA typ. @ 40V
  - Input volt.: 24-28VAC, 7-40VDC
- Hardware Includes:** RCM3700 Rabbit Microprocessor Core Module plus proto and breadboards (6.5"L x 2.2"W), 12VDC @ 1A power supply, serial cable, 2 Ethernet cables, 8Ω 400mW speaker, wiring kit, 10kΩ thermistor, 0.1µF capacitor, 10kΩ potentiometer, headers, and standoffs

**Software Includes:** Dynamic C lite, libraries and samples, as well as royalty free TCP/IP protocol stack.

Part No.	Description	Price
355004	Ethernet starter kit	\$196.99

## The Rabbit 3000 Microprocessor

The new Rabbit 3000 is a high-performance, low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. Extensive integrated features and glueless architecture facilitate rapid hardware design, while a C-friendly instruction set promotes efficient development of

even the most complex applications. All development kits come complete with microprocessor core module, prototyping board, Dynamic C® development software with documentation on CD-ROM, serial cable for programming and debugging, "Getting Started" manual and AC adapter.

For detailed specifications, visit [www.Jameco.com/prod/Rabbit](http://www.Jameco.com/prod/Rabbit)



### RCM3000 & 3100 General Purpose Development Kits

The RCM3000 & RCM3100 are ideal options for designers who want to rapidly develop and implement embedded systems with or without integrated Ethernet connectivity.

Part No.	Description	320733	Price
320733	RCM3000 ethernet enabled kit 		\$284.05
320741	RCM3100 general purpose kit 		\$226.95

### RCM3400 Development Kit

The RCM3400 is based on the low-EMI Rabbit 3000 CPU running at 29.4MHz, with 512kB Flash and 512kB SRAM on board. The development board features a 10/100Base-T Ethernet connection and can be used as a reference design in conjunction with Dynamic C's royalty-free TCP/IP software libraries included in the development kit. Additional features include 5 serial ports and 8 analog inputs with programmable gain—all in an extremely small footprint!

Part No.	Description		Price
321031	RCM3400 analog development kit 		\$378.95

### RCM3200 10/100Base-T Development Kit

The RCM3200 RabbitCore™ microprocessor core module is a great choice for designers who want to rapidly implement embedded systems that require a fully integrated 10/100Base-T Ethernet connection. Additional features include a battery-backed real-time clock, glueless I/O interfacing, slave port and an alternate I/O bus.

Part No.	Description	Price
320979	RCM3200 ethernet enabled kit 	\$331.55

### RCM3300 & 3360 Flash Development Kits




The RCM3300 RabbitCore™ microprocessor core module is ideal for designers who want to rapidly develop serial flash into their embedded application. The RCM3300 offers 8MB of serial flash for data logging and file storage purposes.

The RCM3360 RabbitCore™ microprocessor core module presents a new form of embedded flexibility: removable xD-Picture Cards. Supports 16MB of on-board NAND Flash as well as memory cards of up to 128MB.

Part No.	Description	Price
321082	RCM3300 serial flash kit 	\$240.55
321613	RCM3360 NAND flash kit 	\$378.95

### RCM3600, 3700 & 3720 Combo Flash/10Base-T Kits

The RCM3600 and RCM3700/3720 RabbitCore™ development kits are the lowest priced Rabbit 3000 microprocessor based core modules designed for a wide variety of applications. Each is equipped with +5VDC tolerant I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities.

Part No.	Description	Price
321058	RCM3600 above w/o ethernet 	\$226.95
321074	RCM3700 10Base-T, 512kB SRAM kit 	\$283.95
321630	RCM3720 10Base-T, 256kB SRAM kit 	\$197.05

Model No.	RCM3000	RCM3100	RCM3200	RCM3300	RCM3360	RCM3400	RCM3600	RCM3700	RCM3720
Jameco Part No.	320733	320741	320979	321082	321613	321031	321058	321074	321630
CPU Speed	29.4MHz⊕	29.4MHz⊕	44.2MHz⊕	44.2MHz⊕	44.2MHz⊕	29.4MHz⊕	22.1MHz⊕	22.1MHz⊕	22.1MHz⊕
Ethernet	10Base-T, RJ-45, 2 LEDs	None	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, MAC ID installed	None	10Base-T, RJ-45, 2 LEDs	10Base-T, RJ-45, 2 LEDs
Flash Memory	512k (2 x 256kB)	512k (2 x 256kB)	512kB	512kB	512kB	512kB	512kB	512kB	512kB
SRAM	512kB	512kB	512kB program + 256kB data	512kB program + 512kB data	512kB program + 512kB data	512kB	512kB	512kB	256kB
Extended Memory	None	None	None	8MB Serial Flash	16MB NAND Flash Chip, xD Removable Flash Memory	None	None	1MB Serial Flash	1MB Serial Flash
General Purpose I/O	49 digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	54 digital: 46 configurable, 4 fixed inputs, 4 fixed outputs	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	49 parallel digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	52 parallel digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	47 digital: 41 configurable, 3 fixed inputs, 3 fixed outputs	33 parallel digital: 31 configurable, 2 fixed inputs	33 parallel digital: 31 configurable, 2 fixed inputs	33 parallel digital: 31 configurable, 2 fixed inputs
Analog Inputs	None	None	None	None	None	8-ch single-ended (11-bit) or 4-ch differential	None	None	None
Additional Inputs	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset In, CONVERT	Reset	Reset	None
Additional Outputs	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset, BVREF	None	None	None
External I/O	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr
Serial Ports	Six 3.3V CMOS-compatible: configurable as asynchronous (with IrDA), 4 configurable as clocked (SPI), 2 configurable as SDLC/HDLC			Five 3.3V CMOS-compat. config. as asynch. (w/IrDA), 3 config. clocked (SPI), 2 config. SDLC/HDLC, 1 asynch. (prog.)	Six 3.3V CMOS-compat. config. as asynch. (w/IrDA), 4 config. clocked (SPI), 2 config. SDLC/HDLC, 1 asynch. dedicated. (prog.)	5 CMOS-compatible: 4 configurable as asynch. (w/IrDA), 3 as clocked serial (SPI), 2 as SDLC/HDLC w/ IrDA, 1 asynch. serial port support for MIR/SIR IrDA transceiver	Four 3.3V CMOS-compatible: 4 configurable as asynchronous (with IrDA), 3 as clocked serial (SPI) and 1 as SDLC/HDLC (with IrDA) or 1 SPI and 2SDLC/HDLC, 1 asynchronous serial port (programming)		
Power	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 75mA	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 150mA	3.0-3.45VDC @ 97mA	4.75-12.6VDC @ 60mA	4.75-5.25VDC @100mA	4.75-5.25VDC @100mA
Board Size	2.73" x 1.85" x 0.86"	1.85" x 1.65" x 0.55"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	1.37" x 1.16" x 0.31"	2.10" x 1.20" x 0.62"	2.95" x 1.20" x 0.85"	2.95" x 1.20" x 0.85"
Connectors	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17 (1.27mm)	One 2 x 20, 0.10" IDC headers	One 2 x 20, 0.10" IDC headers	One 2 x 20, 0.10" IDC headers
Included	RabbitCore™ module, development board w/ prototyping area, Dynamic C development system and documentation on CD-ROM, serial cable, "Getting Started" manual, and AC adapter								
Price	\$284.05	\$226.95	\$331.55	\$240.55	\$378.95	\$378.95	\$226.95	\$283.95	\$197.05

Thousands of additional ICs are now available on our website.

## EPROMs

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39909	2708❖	DIP-24	1k x 8	450ns, 5V	\$5.99	\$5.15	\$3.83
33611	TMS2716❖	DIP-24	2k x 8	450ns, 5V	2.25	1.99	1.79
40002	2716❖	DIP-24	2k x 8	450ns, 5V	4.09	3.69	3.29
39706	27C16❖	DIP-24	2k x 8	450ns, 5V	6.99	5.99	4.99
308662	2716A-2	DIP-24	2k x 8	200ns, 5V	5.09 5.19	4.41	3.75
40011	2716-1❖	DIP-24	2k x 8	350ns, 5V	6.49	5.89	5.39
265931	27C16-200	DIP-24	2k x 8	200ns, 5V	3.99	3.39	2.54
265965	27C16-150	DIP-24	2k x 8	150ns, 5V	6.15	5.20	3.90
40096	2732❖	DIP-24	4k x 8	450ns, 5V	7.39	6.25	4.78
39765	27C32❖	DIP-24	4k x 8	450ns, 5V	6.59	5.94	5.34
40133	2732A-45❖	DIP-24	4k x 8	450ns, 5V	3.99	3.69	3.29
33591	TMS2532❖	DIP-24	4k x 8	450ns, 5V	3.99	3.59	3.19
114876	2732B❖	DIP-24	4k x 8	450ns, 5V	4.19	3.79	3.39
40125	2732A-25❖	DIP-24	4k x 8	250ns, 5V	4.99	4.49	3.99
40109	2732A-20❖	DIP-24	4k x 8	200ns, 5V	6.49	5.99	5.49
265990	27C32-200	DIP-24	4k x 8	200ns, 5V	5.99	4.99	3.99
266001	27C32-150	DIP-24	4k x 8	150ns, 5V	6.99	5.99	4.99
40205	2764-25❖	DIP-28	8k x 8	250ns, 5V	4.75	4.30	3.85
40248	2764A-25❖	DIP-28	8k x 8	250ns, 5V	3.99	3.69	3.09
39845	2764-25❖	DIP-28	8k x 8	250ns, 5V	4.05	3.65	3.40
40192	2764-20❖	DIP-28	8k x 8	200ns, 5V	5.59	5.08	4.55
40230	2764A-20❖	DIP-28	8k x 8	200ns, 5V	4.49	4.09	3.69
74608	27C64-20❖	DIP-28	8k x 8	200ns, 5V	4.15	3.60	3.44
39829	27C64-15❖	DIP-28	8k x 8	150ns, 5V	3.95	3.63	3.10
105304	27C64-12❖	DIP-28	8k x 8	120ns, 5V	3.29	2.98	2.71
266036	27C64-100❖	DIP-28	8k x 8	100ns, 5V	4.09	3.59	2.69
266044	27C64-70❖	DIP-28	8k x 8	70ns, 5V	4.85	4.12	3.70
39933	27128-25❖	DIP-28	16k x 8	250ns, 5V	5.15	4.79	4.19
39984	27128A-25❖	DIP-28	16k x 8	250ns, 5V	4.59	4.17	3.76
39685	27C128-25❖	DIP-28	16k x 8	250ns, 5V	4.25	3.81	3.49
39968	27128A-20❖	DIP-28	16k x 8	200ns, 5V	4.39	3.90	3.54
101101	27C128-20❖	DIP-28	16k x 8	200ns, 5V	4.39	3.95	3.56
39950	27128A-15❖	DIP-28	16k x 8	150ns, 5V	4.05	3.60	3.25
39677	27C128-15❖	DIP-28	16k x 8	150ns, 5V	5.15	4.67	4.19
87935	27C128-12❖	DIP-28	16k x 8	120ns, 5V	4.89	4.16	3.14
266061	27C128-100❖	DIP-28	16k x 8	100ns, 5V	4.39	3.86	3.50
149665	27C128-70❖	DIP-28	16k x 8	70ns, 5V	4.89	4.16	3.12
40061	27256-25❖	DIP-28	32k x 8	250ns, 5V	3.19	2.99	2.69
39731	27C256-25❖	DIP-28	32k x 8	250ns, 5V	3.83	3.59	3.23
40045	27256-20❖	DIP-28	32k x 8	200ns, 5V	3.39	2.96	2.69
39722	27C256-20❖	DIP-28	32k x 8	200ns, 5V	3.11	2.99	2.63
40037	27256-15❖	DIP-28	32k x 8	150ns, 5V	3.45	3.25	2.93
39714	27C256-15❖	DIP-28	32k x 8	150ns, 5V	2.09	1.79	1.59
65904	27C256-12❖	DIP-28	32k x 8	120ns, 5V	2.09	1.99	1.79
112740	27C256-10❖	DIP-28	32k x 8	100ns, 5V	2.95	2.80	2.35
140476	27C256-70❖	DIP-28	32k x 8	70ns, 5V	3.39	3.19	2.99
266079	27C256-55❖	DIP-28	32k x 8	55ns, 5V	4.99	4.24	3.18
40168	27512-25❖	DIP-28	64k x 8	250ns, 5V	3.69	3.39	3.09
39802	27C512-25❖	DIP-28	64k x 8	250ns, 5V	4.75	4.39	3.95
40150	27512-20❖	DIP-28	64k x 8	200ns, 5V	2.69	2.39	2.19
39790	27C512-20❖	DIP-28	64k x 8	200ns, 5V	3.71	3.47	3.11
39781	27C512-15❖	DIP-28	64k x 8	150ns, 5V	2.29	2.05	1.79
39773	27C512-12❖	DIP-28	64k x 8	120ns, 5V	2.15	2.04	1.69
131959	27C512-10❖	DIP-28	64k x 8	100ns, 5V	3.05	2.89	2.16
175206	27C512-90❖	DIP-28	64k x 8	90ns, 5V	1.85	1.76	1.66
203625	27C512-70❖	DIP-28	64k x 8	70ns, 5V	2.69	2.37	1.79
203617	27C512-45❖	DIP-28	64k x 8	45ns, 5V	2.69	2.29	1.72
118148	27C1024-15❖	DIP-40	64k x 16	150ns, 5V	5.29	4.79	4.39
203641	27C1024-12❖	DIP-40	64k x 16	120ns, 5V	6.15	5.23	3.92
39669	27C010-20❖	DIP-32	128k x 8	200ns, 5V	2.09	1.87	1.54
39651	27C010-15❖	DIP-32	128k x 8	150ns, 5V	2.15	1.79	1.52
74624	27C010-12❖	DIP-32	128k x 8	120ns, 5V	1.99	1.90	1.70
79231	27C010-10❖	DIP-32	128k x 8	100ns, 5V	2.09	1.75	1.60
137699	27C010-80❖	DIP-32	128k x 8	80ns, 5V	5.15	4.61	4.09

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

## EPROMs (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
146149	27C010-70❖	DIP-32	128k x 8	70ns, 5V	\$2.49	\$2.29	\$2.09
266095	27C010-55❖	DIP-32	128k x 8	55ns, 5V	2.69	2.53	2.36
65699	27C020-15❖	DIP-32	256k x 8	150ns, 5V	5.29	4.99	4.49
78852	27C020-12❖	DIP-32	256k x 8	120ns, 5V	4.35	4.15	3.95
156267	27C020-10❖	DIP-32	256k x 8	100ns, 5V	2.85	2.65	2.18
127933	27C4096-12❖	DIP-40	256k x 16	120ns, 5V	6.95	5.95	5.35
85462	27C040-15❖	DIP-32	512k x 8	150ns, 5V	5.05	4.35	3.75
102293	27C040-12❖	DIP-32	512k x 8	120ns, 5V	5.05	4.35	3.75
111780	27C040-10❖	DIP-32	512k x 8	100ns, 5V	5.05	4.35	3.75
203676	27C040-80❖	DIP-32	512k x 8	80ns, 5V	5.29	5.24	5.19
266124	27C040-70❖	DIP-32	512k x 8	70ns, 5V	5.05	4.26	3.20
266132	27C040-55❖	DIP-32	512k x 8	55ns, 5V	5.05	4.75	3.56
140003	27C080-12❖	DIP-32	1M x 8	120ns, 5V	10.05	9.50	8.50
265842	27C800-12❖	DIP-42	1M x 8	120ns, 5V	15.11	13.91	12.71
156275	27C080-10❖	DIP-32	1M x 8	100ns, 5V	11.05	10.20	7.65
203684	27C080-90❖	DIP-32	1M x 8	90ns, 5V	10.85	10.15	7.61

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## EPROMs

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
698331	M27C64A-20F1❖	DIP-28	8k x 8	200ns, 5V	\$4.75	\$4.22	\$3.70
698349	M27C64A-20F6❖	DIP-28	8k x 8	200ns, 5V	3.69	3.59	3.49
698322	M27C64A-15F1❖	DIP-28	8k x 8	150ns, 5V	3.79	3.49	3.19
698111	M27C256B-15F1❖	DIP-28	32k x 8	150ns, 5V	2.29	2.11	1.99
698091	M27C256B-12F1❖	DIP-28	32k x 8	120ns, 5V	2.29	2.22	2.15
698103	M27C256B-12F6❖	DIP-28	32k x 8	120ns, 5V	3.05	2.62	2.04
698082	M27C256B-10F1❖	DIP-28	32k x 8	100ns, 5V	3.05	2.62	2.30
698138	M27C256B-90F6❖	DIP-28	32k x 8	90ns, 5V	3.05	2.62	2.30
698120	M27C256B-70XF1❖	DIP-28	32k x 8	70ns, 5V	3.59	3.30	3.02
698218	M27C512-10F1❖	DIP-28	64k x 8	100ns, 5V	2.35	2.22	2.12
698306	M27C512-90F1❖	DIP-28	64k x 8	90ns, 5V	2.39	2.33	2.26
698314	M27C512-90F6❖	DIP-28	64k x 8	90ns, 5V	2.39	2.33	2.26
698277	M27C512-70XF1❖	DIP-28	64k x 8	70ns, 5V	3.15	2.74	2.40
698251	M27C512-45XF1❖	DIP-28	64k x 8	45ns, 5V	4.05	3.80	3.55
698234	M27C512-15F1❖	DIP-28	64k x 8	150ns, 5V	3.15	2.74	2.40
698242	M27C512-15F6❖	DIP-28	64k x 8	150ns, 5V	3.15	2.73	2.40
698226	M27C512-12F1❖	DIP-28	64k x 8	120ns, 5V	2.35	2.22	2.12
697987	M27C1001-15F1❖	DIP-32	128k x 8	150ns, 5V	3.99	3.72	3.46
697961	M27C1001-12F1❖	DIP-32	128k x 8	120ns, 5V	3.69	3.24	2.85
697979	M27C1001-12F6❖	DIP-32	128k x 8	120ns, 5V	3.79	3.43	3.08
697944	M27C1001-10F1❖	DIP-32	128k x 8	100ns, 5V	3.69	3.24	2.99
698007	M27C1001-70F1❖	DIP-32	128k x 8	70ns, 5V	3.75	3.24	2.84
697995	M27C1001-45XF1❖	DIP-32	128k x 8	45ns, 5V	5.95	5.60	5.20
698058	M27C2001-15F1❖	DIP-32	256k x 8	150ns, 5V	5.25	4.75	4.23
698031	M27C2001-12F1❖	DIP-32	256k x 8	120ns, 5V	3.79	3.57	3.36
698040	M27C2001-12F6❖	DIP-32	256k x 8	120ns, 5V	4.05	3.99	3.80
698023	M27C2001-10F1❖	DIP-32	256k x 8	100ns, 5V	5.15	4.45	3.90
698066	M27C2001-70XF1❖	DIP-32	256k x 8	70ns, 5V	8.15	7.62	7.09
698197	M27C4002-10F1❖	DIP-40	256k x 8	100ns, 5V	9.45	8.85	8.25
698200	M27C4002-12F1❖	DIP-40	256k x 8	120ns, 5V	9.45	8.85	8.25
698171	M27C4001-15F1❖	DIP-32	512k x 8	150ns, 5V	5.45	4.98	4.57
698154	M27C4001-12F1❖	DIP-32	512k x 8	120ns, 5V	5.89	5.40	4.98
698146	M27C4001-10F1❖	DIP-32	512k x 8	100ns, 5V	5.89	5.40	4.98
698189	M27C4001-80XF1❖	DIP-32	512k x 8	80ns, 5V	5.25	5.10	4.96
698357	M27C801-100F1❖	DIP-32	1M x 8	100ns, 5V	4.59	4.34	4.09

## EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864	CF2❖	Conductive foam (12" x 24" x .25") hard black	\$9.29	\$8.35
226309	SUPERPRO-Z	EPROM Programmer, pg 302	369.95	351.49
15712	DE4❖	8-chip UV-EPROM eraser, pg 302	106.85	101.49

For additional EPROM programmers & erasers on pages 302 & 303.

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## OTP/PROMs

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48717	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$8.15	\$7.03	\$6.04
27844	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.99	5.39	4.89
27764	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.39	10.92	10.38
48696	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	14.34	12.90	11.63
48805	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.09	2.95	2.80
27772	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM	9.35	8.15	7.10
27781	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.55	10.02	8.79
27799	N82S131	DIP-16	512 x 4	2-kbit, 7V, 50ns, PROM	7.99	6.99	5.99
27801	N82S137	DIP-18	1k x 4	4-kbit, 7V, 60ns, PROM	6.95	5.91	4.43
27810	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	6.59	5.59	4.89
27836	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	9.15	7.99	7.29
394978	AT27C256R-45J	PLCC-32	32k x 8	256-kbit, 5V, 45ns, I-temp. OTP	2.59	2.29	1.99
394986	AT27C256R-45P	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	2.59	2.29	1.99
698074	M27C256B-10B6	DIP-28	32k x 8	256-kbit, 5V, 100ns, OTP	1.29	1.18	1.09
266255	27C256-15	PLCC-32	32k x 8	256-kbit, 5V, 150ns, OTP	1.15	1.05	.91
266247	27C256-20	DIP-28	32k x 8	256-kbit, 5V, 200ns, OTP	1.59	1.43	1.07
395049	AT27C512R-45P	DIP-28	64k x 8	512-kbit, 5V, 45ns, OTP	1.09	.95	.89
395081	AT27C512R-70P	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp. OTP	1.35	1.17	.99
698269	M27C512-70CS	PLCC-32	64k x 8	512-kbit, 5V, 70ns, OTP	1.65	1.38	1.16
698285	M27C512-90B6	DIP-28	64k x 8	512-kbit, 5V, 90ns, OTP	1.65	1.38	1.16
203692	27C512-12	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	2.09	1.78	1.33
394652	AT27BV1024-12V	VSOP-40	64k x 16	1-Mbit, 2.7V, 120ns, I-temp. OTP	5.55	4.66	4.35
394695	AT27C010-70J	PLCC-32	128k x 8	1-Mbit, 5V, 70ns, I-temp. OTP	2.15	1.83	1.37
394708	AT27C010-70P	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp. OTP	1.49	1.40	1.33
203705	27C010-10	DIP-32	128k x 8	1-Mbit, 5V, 100ns OTP	1.65	1.37	1.30
698015	M27C1001-10B1	DIP-32	128k x 8	1-Mbit, 5V, 100ns, OTP	2.59	2.34	1.94
697952	M27C1001-12B1	DIP-32	128k x 8	1-Mbit, 5V, 120ns, OTP	2.29	2.06	1.84
394791	AT27C020-90P	DIP-32	256k x 8	2-Mbit, 5V, 90ns, I-temp. OTP	1.98	1.68	1.66
697936	M27C2001-10B1	DIP-32	256k x 8	2-Mbit, 5V, 100ns, OTP	1.89	1.79	1.59
698365	M27V401-80K6	PLCC-32	512k x 8	2-Mbit, 5V, 100ns, OTP	4.05	3.56	3.12

Blue Part No. = Limited Quantity Available

## EEPROMs

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
368711	AT24C01A-10S1-27	SOIC-8	128 x 8	2-wire serial, 2.7V, I-temp.	\$ .27	\$ .23	\$ .186
844086	AT24C11-10PU-27	DIP-8	128 x 8	2-wire serial, 2.7V, I-temp.	.59	.451	.338
844431	AT25010AN-10S1-27	SOIC-8	128 x 8	SPI serial, 2.7V, I-temp.	.80	.61	.46
368868	AT24C02AN-10S1-27	SOIC-8	256 x 8	2-wire serial, 2.7V, I-temp.	.62	.527	.448
762110	AT24C02B-10PU-18	DIP-8	256 x 8	2-wire serial, 1.8V, I-temp.	.75	.58	.44
843884	AT24C02BN-10S1-18	SOIC-8	256 x 8	2-wire serial, 1.8V, I-temp.	.75	.58	.441
368913	AT24C02N-10S1-18	SOIC-8	256 x 8	2-wire serial, 1.8V, I-temp.	.33	.281	.211
369617	AT25020A-10P1-27	DIP-8	256 x 8	SPI serial, 2.7V, I-temp.	.56	.476	.357
844465	AT25020AN-10S1-27	SOIC-8	256 x 8	SPI serial, 2.7V, I-temp.	.80	.61	.46
762347	AT25040AN-10S1-18	SOIC-8	512 x 8	SPI serial, 1.8V, I-temp.	.88	.66	.501
844490	AT25040AN-10S1-27	SOIC-8	512 x 8	SPI serial, 2.7V, I-temp.	.81	.64	.48
843913	AT24C04-10PU-27	DIP-8	512 x 8	2-wire serial, 2.7V, I-temp.	.75	.55	.415
368930	AT24C04A-10P1-27	DIP-8	512 x 8	2-wire serial, 2.7V, I-temp.	.24	.235	.23
762136	AT24C04A-10TU-27	TSSOP-8	512 x 8	2-wire serial, 2.7V, I-temp.	*	Call	Call
843972	AT24C04AN-10S1-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.73	.68	.418
369086	AT24C04AN-10S1-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.24	.235	.23
762152	AT24C04N-10S1-18	SOIC-8	512 x 8	2-wire serial, 1.8V, I-temp.	.75	.58	.44
844001	AT24C04N-10S1-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.73	.55	.418
369220	AT24C08AN-10S1-27	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp.	.31	.292	.274
844035	AT24C08AN-10S1-27	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp.	.79	.60	.458
844529	AT25080AN-10S1-27	SOIC-8	1k x 8	SPI serial, 2.7V, I-temp.	.77	.65	.53
369369	AT24C16A-10P1-27	DIP-8	2k x 8	2-wire serial, 2.7V, I-temp.	.43	.366	.32
368809	AT24C16AN-10S1-18	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp.	.42	.357	.34
368948	AT24C16AN-10S1-27	SOIC-8	2k x 8	2-wire serial, 2.7V, I-temp.	.37	.36	.34
844414	AT24C02BN-10S1-18	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp.	.80	.61	.46
369836	AT25160-10P1-18	DIP-8	2k x 8	SPI serial, 1.8V, I-temp.	1.49	1.45	1.39
369810	AT25160A-10P1-18	DIP-8	2k x 8	SPI serial, 1.8V, I-temp.	.61	.52	.45
369852	AT25160AN-10S1-27	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp.	1.21	1.03	.77
762427	AT25160AN-10S1-18	SOIC-8	2k x 8	SPI serial, 1.8V, I-temp.	.89	.75	.60

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## EEPROM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	* Minimum order	10 pieces	100
844561	AT25160AN-10S1-27	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp.	\$ .85	\$ .72	\$ .59
395292	AT28BV16-25JC	PLCC-32	2k x 8	Parallel, 2.7V, com-temp	3.25	3.10	2.94
369449	AT24C32A-10P1-27	DIP-8	4k x 8	2-wire serial, 2.7V, I-temp.	.76	.65	.47
369473	AT24C32AN-10S1-18	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp.	.47	.40	.381
369481	AT24C32AN-10S1-27	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp.	1.09	.93	.70
369502	AT24C32AN-10S1-27	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp.	2.35	2.00	1.50
369983	AT25320AN-10S1-27	SOIC-8	4k x 8	SPI serial, 2.7V, I-temp.	1.49	1.27	.95
844730	AT25320AN-10S1-27	SOIC-8	4k x 8	SPI serial, 2.7V, I-temp.	1.10	.92	.75
369570	AT24C64A-10T1-27	TSSOP-8	8k x 8	2-wire serial, 2.7V, I-temp.	4.35	3.70	2.77
369537	AT24C64AN-10S1-27	SOIC-8	8k x 8	2-wire serial, 2.7V, I-temp.	.49	.48	.46
762486	AT25640A-10PU-27	DIP-8	8k x 8	SPI serial, 2.7V, I-temp.	1.25	1.05	.84
368737	AT25640AN-10S1-18	SOIC-8	8k x 8	SPI serial, 1.8V, I-temp.	1.15	.97	.78
762507	AT25640AN-10S1-18	SOIC-8	8k x 8	SPI serial, 1.8V, I-temp.	1.29	1.06	.86
844764	AT25640AN-10S1-27	SOIC-8	8k x 8	SPI serial, 2.7V, I-temp.	1.25	1.04	.84
762638	AT28C64-12PC	DIP-28	8k x 8	Parallel, 5V, Com-temp	13.55	12.63	11.84
762654	AT28C64-15PC	DIP-28	8k x 8	Parallel, 5V, Com-temp	9.69	9.49	9.29
762671	AT28C64-25P	DIP-28	8k x 8	Parallel, 5V, I-temp.	13.99	13.69	13.39
845100	AT28C64B-15J	PLCC-32	8k x 8	Parallel, 5V, I-temp.	2.95	2.73	2.56
762697	AT28C64B-15J	PLCC-32	8k x 8	Parallel, 5V, I-temp.	4.99	3.99	3.14
762718	AT28C64B-15S	SOIC-28	8k x 8	Parallel, 5V, I-temp.	5.59	5.29	4.99
844385	AT24C64BN-10S1-27	SOIC-8	8k x 8	2-wire serial, 2.7V, I-temp.	1.30	1.22	1.14
762814	AT28H64B-12J	PLCC-32	8k x 8	Hi-speed parallel, 5V, I-temp	5.03	3.94	3.28
369271	AT24C128-10P1-18	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.89	1.61	1.21
369289	AT24C128-10P1-27	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.89	1.61	1.21
762179	AT24C128-10PU-27	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.25	1.05	.85
844115	AT24C128N-10S1-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.25	1.04	.84
369326	AT24C128N-10S1-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.89	1.61	1.21
762195	AT24C128N-10S1-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.25	1.05	.85
844545	AT25128AN-10S1-27	SOIC-8	16k x 8	SPI serial, 2.7V, I-temp.	1.35	.99	.87
762363	AT25128A-10PU-27	DIP-8	16k x 8	SPI serial, 2.7V, I-temp.	1.45	1.07	.87
762443	AT25256A-10TU-18	TSSOP-8	32k x 8	SPI serial, 1.8V, I-temp.	*	Call	Call
844596	AT25256A-10PU-27	DIP-8	32k x 8	SPI serial, 2.7V, I-temp.	1.85	1.47	1.21
844641	AT25256AN-10S1-27	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.85	1.47	1.21
762460	AT25256AN-10S1-18	SOIC-8	32k x 8	SPI serial, 1.8V, I-temp.	1.85	1.51	1.23
844713	AT25256AN-10S1-27	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.85	1.47	1.21
762267	AT24C256B-10P1-18	TSSOP-8	32k x 8	2-wire serial, 1.8V, I-temp.	*	Call	Call
762591	AT28BV64B-20S	SOIC-28	8k x 8	Parallel, 2.7V - 3.6V, I-temp.	9.39	6.29	5.69
845003	AT28C256-15J	PLCC-32	32k x 8	Paged parallel, 5V, I-temp.	5.85	5.46	5.11
762611	AT28C256-15J	PLCC-32	32k x 8	Paged parallel, 5V, I-temp.	6.69	5.35	4.57
845054	AT28C256-15P	DIP-28	32k x 8	Paged parallel, 5V, I-temp.	11.99	11.75	11.39
762304	AT24C512-10PU-27	DIP-8	64k x 8	2-wire serial, 2.7V, I-temp.	2.29	1.84	1.52
844271	AT24C512N-10S1-27	SOIC-8	64k x 8	2-wire serial, 2.7V, I-temp.	2.29	1.79	1.52
763884	AT93C46-10PU-18	DIP-28	128 x 8	3-wire serial, 1.8V - 5.5V, I-temp.	.69	.495	.375
846188	AT93C46-10PU-27	DIP-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.61	.46	.36
846217	AT93C46-10S1-27	SOIC-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.55	.46	.36
846284	AT93C46A-10PU-27	DIP-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	.61	.46	.36
763905	AT93C46A-10S1-18	SOIC-8	64 x 16	3-wire serial, 1.8V - 5.5V, I-temp.	1.29	1.20	1.12
846313	AT93C46A-10S1-27	SOIC-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	*	.246	.229
846348	AT93C46A-10TU-27	TSSOP-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	*	Call	Call
846364	AT93C46A-10S1-27	SOIC-8	256 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	*	.307	.287
846399	AT93C66A-10PU-27	DIP-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	*	.357	.332
846428	AT93C66A-10S1-27	SOIC-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	*	.344	.321
763948	AT93C66A-10TU-27	TSSOP-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	*	Call	Call
763964	AT93C86A-10S1-27	SOIC-8	2k x 8	3-wire serial, 2.7V - 5.5V, I-temp.	*	.442	.413
843673	AT17L128-10PC	DIP-8	128k x 1	128k-bit config eeprom mem, C-temp	12.75	11.80	11.02
843702	AT17L256-10PC	DIP-8	256k x 1	256k-bit config eeprom mem, C-temp	13.35	12.39	11.57
843711	AT17L512-10JC	PLCC-20	524k x 1	1-bit, serial, 3.3V & 5V System, Com. temp	17.89	16.60	15.49
762099	AT17F080-30J	PLCC-20	8M x 1	Config flash, I-temp.	54.85	50.91	47.5

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**EEPROM**

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
* Minimum order 10 pieces							
697856	M24C02-WBN6P	SO-8	256 x 8	2.5-5.5V, 2-kbit serial I <sup>2</sup> C bus	\$.25	\$.242	\$.235
697864	M24C02-WMN6P	SO-8	256 x 8	2.5-5.5V, 2-kbit serial I <sup>2</sup> C bus	.71	.70	.63
697881	M24C04-WMN6P	SO-8	512 x 8	2.5-5.5V, 4-kbit serial I <sup>2</sup> C bus	.90	.79	.69
697901	M24C16-WMN6P	SO-8	2k x 8	2.5-5.5V, 16-kbit serial I <sup>2</sup> C bus	*	.332	.31

**MICROCHIP EEPROM – Serial**

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
* Minimum order 10 pieces							
790866	24LC00/P	DIP-8	16 x 8	128-bit I <sup>2</sup> C bus, 2.5V	\$.34	\$.31	\$.28
790882	24LC014-I/MS	MSOP-8	128 x 8	1k I <sup>2</sup> C, 2.5V, I-temp.	.51	.50	.49
790903	24LC01B-I/P	DIP-8	128 x 8	1k I <sup>2</sup> C, 2.5V, I-temp.	*	.39	.366
790920	24LC01B-I/SN	SOIC-8	128 x 8	1k I <sup>2</sup> C, 2.5V, I-temp.	.39	.36	.328
790946	24LC01B/P	DIP-8	128 x 8	1k I <sup>2</sup> C, 2.5V	.35	.341	.31
695834	24LC16B-I/SN	SOIC-8	256 x 8	5V, 400kHz	.59	.55	.524
695931	24LC64-I/P	DIP-8	8k x 8	5V, 400kHz	.89	.84	.80
695957	24LC64-I/SN	SOIC-8	8k x 8	5V, 400kHz	.89	.86	.81
695973	25LC640-I/SN	SOIC-8	8k x 8	5V, 2MHz	.99	.93	.89
695818	24LC128-I/SN	SOIC-8	16k x 8	5V, 400kHz	1.45	1.36	1.29
695851	24LC256-I/SM	SOIC-8	32k x 8	5V, 400kHz	2.05	1.94	1.84
695877	24LC256-I/SN	SOIC-8	32k x 8	5V, 400kHz	2.05	1.92	1.83
695914	24LC515-I/SM	SOIC-8	64k x 8	5V, I <sup>2</sup> C CMOS	3.39	3.23	3.07
791244	93C46B-I/SN	SOIC-8	64 x 16	1k microwire, 5V, I-temp, w/o pin	.37	.357	.345
791261	93C46B/P	SOIC-8	64 x 16	1k microwire, 5V, w/out org pin	*	.344	.323
791287	93C46C-I/P	DIP-8	128 x 8	1k microwire, 5V, I-temp, w/org pin	.40	.378	.345
791308	93LC46/SN	SOIC-8	128 x 8	1k microwire, 2.5V, w/org pin	.58	.53	.483
791324	93LC46A-I/SN	SOIC-8	128 x 8	1k microwire, 2.5V, I-temp.	.38	.37	.362
791332	93LC46B-I/P	DIP-8	64 x 16	1k microwire, 2.5V, I-temp.	.40	.38	.33
791367	93LC46B-I/ST	TSSOP-8	64 x 16	1k microwire, 2.5V, I-temp.	.43	.41	.37
791383	93LC46B/P	DIP-8	64 x 16	1k microwire, 2.5V	.40	.36	.328
791404	93LC46C-I/SNG	SOIC-8	128 x 8	1k microwire, 2.5V, I-temp, w/pin	.37	.36	.345
790962	24LC02B-I/SNG	SOIC-8	256 x 8	2k I <sup>2</sup> C, 2.5V, I-temp.	.50	.454	.45
791421	93LC56-I/SN	SOIC-8	256 x 8	2k microwire, 2.5V, I-temp.	.71	.65	.59
791447	93LC56B/P	DIP-8	128 x 16	2k microwire, 2.5V	.44	.398	.362
790989	24LC04B-I/ST	TSSOP-8	2 x 256 x 8	4k I <sup>2</sup> C, 2.5V, I-temp.	.47	.46	.448
791463	93LC66B/P	DIP-8	256 x 16	4k microwire, 2.5V	.52	.474	.431
791480	93LC66C-I/SNG	SOIC-8	256 x 16	4k microwire, 2.5V, I-temp.	.44	.43	.415
791172	25C080/SN	SOIC-8	1k x 8	8k SPI bus, 3MHz, 5V	.97	.88	.80
791501	93LC86-I/SN	SOIC-8	2k x 8	16k microwire, I-temp.	1.07	.97	.88
791041	24LC32A-I/P	SOIC-8	4k x 8	32k I <sup>2</sup> C, 2.5V	.79	.72	.66
791076	24LC32A/SN	DIP-8	4k x 8	32k I <sup>2</sup> C, 2.5V, I-temp.	.81	.74	.68
791201	25C320/SN	SOIC-8	4k x 8	32k SPI bus, 3MHz, 5V	1.35	1.23	1.12
791092	24LC64-I/SM	SOIC-8	8k x 8	64k I <sup>2</sup> C, 2.5V, I-temp.	.97	.88	.80
791113	24LC64-I/SNG	SOIC-8	8k x 8	64k I <sup>2</sup> C, 2.5V, I-temp.	.94	.85	.78
790840	24C65/P	DIP-8	8k x 8	64k I <sup>2</sup> C Smart, 4.5V to 6V, 400kHz	2.79	2.57	2.41
791130	24LC65-I/P	DIP-8	8k x 8	64k I <sup>2</sup> C Smart, 2.5V - 6V, 100/400kHz	2.49	2.33	2.14
791228	25LC640-I/SNG	SOIC-8	8k x 8	64k SPI bus, 3/2.5MHz, 2.5V, I-temp.	.89	.87	.85
791009	24LC128-I/P	DIP-8	16k x 8	128k I <sup>2</sup> C CMOS, 2.5V, I-temp.	1.21	1.20	1.19

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**EEPROMs**

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
200627	24C44	DIP-8	16 x 16	Serial, 5V	\$1.99	\$1.69	\$1.26
276955	93C46	SOIC-8	64 x 16	3-wire serial, 2-5V	.32	.272	.204
102058	93C46	DIP-8	64 x 16	3-wire serial, 2-5V	.43	.32	.24
108839	24C02P	DIP-8	256 x 8	2-wire serial, 5V	.40	.38	.28
200598	93C66	DIP-8	256 x 16	3-wire Serial, 2-5V	\$.51	.37	.29
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V	.71	.57	.53
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V	.79	.72	.65
276681	24C16	SOIC-8	2k x 8	2-wire serial, 2-5V	.25	.213	.207
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	1.18	1.00	.75
276699	28C16	SOIC-24	2k x 8	Page parallel, 5V	2.79	2.29	1.99
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.99	3.69	3.39
276701	28C17	DIP-28	2k x 8	Page parallel, 5V	3.85	3.26	2.45
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V	7.15	6.45	5.85
200563	24C32-10	DIP-8	4k x 8	2-wire serial, 5V	.49	.398	.378
200619	24C65	DIP-8	8k x 8	2-wire serial, 2-5V	2.58	2.05	1.92
276752	28C64	SOIC-28	8k x 8	Page parallel, 5V	3.69	3.14	2.35
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	4.45	3.80	3.65
40475	2865A	DIP-28	8k x 8	5V	4.95	4.49	4.05
200571	24C128-10	DIP-8	16k x 8	2-wire serial, 2-5V	1.65	1.35	1.20
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V	2.35	1.90	1.70
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	8.25	7.01	5.26
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	8.99	6.89	6.19
276832	24C512	DIP-8	64k x 8	2-wire serial, 2-5V	2.15	2.08	1.91
276912	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V	6.65	5.18	4.77
242253	28C010-15	DIP-32	128k x 8	Page parallel, 5V	34.89	31.39	28.25

**MICROCHIP PICDEM™ USB Demo Board**

The PICDEM FS USB demonstration kit is designed as an easy-to-use evaluation platform for Microchip's full speed USB solution. The devices in Microchip's new family of USB microcontrollers fully support USB2.0 and serial communications of up to 12Mbps/s. This kit provides all of the hardware and software needed to demonstrate and develop a complete USB communication solution. The microcontroller for the PICDEM board is the PIC18F4550, the principal device of the PIC18F2455/2550/4455/4550 family. All of these devices implement power-saving nano-watt technology, enhanced flash program memory and feature USB modules with:

- Full-speed (12Mbit/s) and low-speed (1.5Mbit/s) operation
- Support of control, interrupt, bulk and isochronous transfers
- On-chip features for a true-single chip USB implementation
- 1kbyte of dual-access RAM for USB
- USB 2.0 compliance
- Interface for off-chip USB transceiver
- Support of up to 32 end points

Part No.	Cross Ref.	Description	1	10	100
697207	DM163025	USB demo board	\$91.09	\$86.76	\$82.63

**MICROCHIP PICkit™ 2 Microcontroller Starter Kit**

The PICkit™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICkit™ 2 microcontroller programmer, USB cable and CD ROM.

Part No.	Cross Ref.	Description	1	10	100
697338	DV164120	Programmer starter kit	\$75.95	\$72.29	\$68.86

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## NXP / PHILIPS Controller Interface

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
699780	PCA82C250N	DIP-8	CAN controller interface, 1 Mbaud	\$1.89	\$1.82	\$1.75
699798	PCA82C250TD	SOIC-8	CAN controller interface, 1 Mbaud	1.55	1.51	1.47
699801	PCA82C251TD	SOIC-8	CAN transceiver for 24V systems	1.55	1.51	1.47

NXP / PHILIPS I<sup>2</sup>C & SMBusFor more NXP I<sup>2</sup>C & Bus  
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Part No.	Cross Ref.	Pkg.	Description	1	10	100
917441	PCA9500PW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ 2-kbit EEPROM	\$1.95	\$1.57	\$1.38
917476	PCA9501PW	TSSOP-20	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt, 2-kbit EEPROM	1.98	1.67	1.47
917505	PCA9551PW	TSSOP-16	8-bit I <sup>2</sup> C LED driver w/ programmable blink rates	1.65	1.37	1.21
917530	PCA9552PW	TSSOP-24	16-bit I <sup>2</sup> C bus LED driver w/ prog. blink rates	2.19	1.76	1.55
855332	PCA9554ADB	SSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.55	1.29	1.14
699819	PCA9554D	SOIC-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.59	1.55	1.50
855367	PCA9554APW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.55	1.29	1.14
699827	PCA9554PW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.59	1.54	1.50
699835	PCA9555DB	SSOP-24	16-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.89	1.70	1.53
699851	PCA9555PW	TSSOP-24	16-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.49	1.44	1.40
917564	PCA9556PW	TSSOP-16	Octal SMBUS & I <sup>2</sup> C registered interface	1.94	1.61	1.42
855383	PCA9633D16	SOIC-16	4-bit I <sup>2</sup> C bus LED driver	1.35	1.12	.99

## ATMEL Flash Memory – Data

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
763286	AT45DB011B-CC	CBGA-9	1M-bit, 2.7V, Com-temp.	\$2.09	\$1.89	\$1.73
763307	AT45DB011B-XC	TSSOP-14	1M-bit, 2.7V, Com-temp.	★	Call	Call
763323	AT45DB011B-XI	TSSOP-14	1M-bit, 2.7V, I-temp.	1.48	1.33	1.23
845505	AT45DB011B-SC	SOIC-8	1M-bit, 2.7V, Com-temp.	2.45	2.09	1.76
845556	AT45DB011B-SU	SOIC-8	1M-bit, 2.7V, I-temp.	1.35	1.07	.95
845741	AT45DB642D-TU	TSOP-28	Dual interface, 64M-bit, 2.7V, I-temp	11.09	10.33	9.69

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## ATMEL Flash Memory – SPI/ISP

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
844895	AT25F128-10SU-27	SOIC-8	64k x 8	SPI serial, 512k-bit, 2.7V, I-temp.	\$1.36	\$1.09	\$0.87
844799	AT25F104-10SU-27	SOIC-8	128k x 8	SPI serial, 1M-bit, 2.7V, I-temp.	1.55	1.24	1.00
844836	AT25F2048-10SU-27	SOIC-8	256k x 8	SPI serial, 2M-bit, 2.7V, I-temp.	1.85	1.79	1.69
844861	AT25F4096-10SU-27	SOIC-8	512k x 8	SPI serial, 4M-bit, 2.7V, I-temp.	2.29	1.85	1.71

## ATMEL Flash Memory

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
763091	AT29C512-70TC	PLCC-32	64k x 8	70ns, 5V, Com.-temp.	\$2.39	\$2.23	\$2.09
845273	AT29C512-90JC	PLCC-32	64k x 8	90ns, 5V, Com.-temp.	2.55	2.29	1.93
845302	AT29C512-90JI	PLCC-32	64k x 8	90ns, 5V, I-temp.	2.39	2.19	1.84
763112	AT29C512-90TI	TSOP-32	64k x 8	90ns, 5V, I-temp.	2.39	2.23	2.09
763227	AT29LV12-15TU	TSOP-32	64k x 8	150ns, 3.3V, I-temp.	2.59	2.12	1.68
762857	AT29BV010A-15JI	PLCC-32	128k x 8	150ns, 2.7V-3.6V, I-temp.	2.69	2.50	2.35
762953	AT29C010A-70JI	PLCC-32	128k x 8	70ns, 5V, I-temp.	2.59	2.26	1.89
845185	AT29C010A-90JC	PLCC-32	128k x 8	90ns, 5V, Com.-temp.	3.85	2.57	2.17
845214	AT29C010A-90JI	PLCC-32	128k x 8	90ns, 5V, I-temp.	5.35	4.69	4.57
762970	AT29C010A-90JJ	PLCC-32	128k x 8	90ns, 5V, I-temp.	2.95	2.36	1.89
762996	AT29C010A-90TC	TSOP-32	128k x 8	90ns, 5V, Com.-temp.	2.69	2.50	2.35
763016	AT29C010A-90TI	TSOP-32	128k x 8	90ns, 5V, I-temp.	2.69	2.50	2.35
845134	AT29C010A-12JC	PLCC-32	128k x 8	120ns, 5V, Com.-temp.	2.85	2.57	2.36
845169	AT29C010A-12JI	PLCC-32	128k x 8	120ns, 5V, I-temp.	2.99	2.75	2.49
762937	AT29C010A-12TI	TSOP-32	128k x 8	120ns, 5V, I-temp.	2.69	2.50	2.35
763139	AT29LV010A-12JI	PLCC-32	128k x 8	120ns, 3.3V, 8k boot block, I-temp.	2.65	2.06	1.89
845337	AT29LV010A-15JI	PLCC-32	128k x 8	150ns, 3.3V, 8k boot block, I-temp.	2.69	2.05	1.89
763147	AT29LV010A-15TC	PLCC-32	128k x 8	150ns, 3.3V, 8k boot block, Com-temp.	2.79	2.15	1.89
845249	AT29C020-70JC	PLCC-32	256k x 8	70ns, 5V, Com.-temp.	7.59	7.19	6.85
845361	AT29LV020-10JI	PLCC-32	256k x 8	100ns, 3.3V, I-temp.	6.99	6.65	6.30
845370	AT29LV020-10TI	TSOP-32	256k x 8	100ns, 3.3V, I-temp.	3.19	2.69	2.52
763032	AT29C040A-15TC	TSOP-32	512k x 8	150ns, 5V, Com.-temp.	5.09	4.75	4.46
763059	AT29C040A-90TI	TSOP-32	512k x 8	90ns, 5V, I-temp.	5.09	4.75	4.46
763075	AT29C040A-90TU	TSOP-32	512k x 8	90ns, 5V, I-temp.	5.45	4.39	3.58
845417	AT29LV040A-15JI	PLCC-32	512k x 8	150ns, 3.3V, 16k boot block, I-temp	4.49	3.69	3.57
763163	AT29LV040A-15TI	TSOP-32	512k x 8	150ns, 3.3V, 16k boot block, I-temp	4.49	3.99	3.58

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Flash Memory

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
375929	AT29LV256-15JC	PLCC-32	32k x 8	150ns, 3V, Com.-temp.	\$4.39	\$3.74	\$3.70
242552	29C512-12	DIP-32	64k x 8	120ns, 5V	5.45	4.89	4.55
242561	29F512-90	DIP-32	64k x 8	90ns, 5V	4.69	3.89	3.59
375785	AT49BV512-12JC	PLCC-32	64k x 8	120ns, 2.7V, Com.-temp.	4.25	4.15	4.05
74771	28F010-15	DIP-32	128k x 8	150ns, 5V	5.49	4.12	3.66
242587	29F010-120	DIP-32	128k x 8	120ns, 5V	3.95	3.65	3.15
242595	29F010-90	DIP-32	128k x 8	90ns, 5V	5.35	4.34	3.61
242608	29F010-70	DIP-32	128k x 8	70ns, 5V	6.09	5.18	3.88
375953	AT29LV010A-15JC	PLCC-32	128k x 8	150ns, 3V, 8k boot block, C-temp.	2.39	2.23	2.07
74835	28F020-15	DIP-32	256k x 8	150ns, 5V	9.54	8.58	7.74
242616	29F020-12	DIP-32	256k x 8	120ns, 5V	\$6.35	4.55	4.44
375814	AT49BV002A-70JI	PLCC-32	256k x 8	70ns, 2.7V, 16k boot block, I-temp.	1.65	1.58	1.50
242659	29F040-120	DIP-32	512k x 8	120ns, 5V	8.95	8.65	8.25
242667	29F040-90	DIP-32	512k x 8	90ns, 5V	9.05	8.60	8.15
375996	AT29LV040A-15JC	PLCC-32	512k x 8	150ns, 3V	4.39	4.20	4.10
375911	AT49BV040A-70JI	PLCC-32	512k x 8	70ns, 2.7V, 16k boot block, I-temp.	1.79	1.76	1.73
277288	29F800-120	TSOP-48	1M x 8	120ns, 5V	3.25	3.12	2.95

## Flash Memory – Serial

For more St Micro Serial Flash  
Memory visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
659913	M25P05-AVMN6	SOIC-8	64k x 8	3V w/ 20MHz SPI bus interf.	\$1.69	\$1.48	\$1.15
321605	M25P10-AVMN6	SOIC-8	128k x 8	3V w/ 40MHz SPI bus interf.	1.49	1.34	1.24
321648	M25P20-AVMN6	SOIC-8	256k x 8	3V w/ 40MHz SPI bus interf.	1.79	1.61	1.45
321664	M25P40-AVMN6	SOIC-8	512k x 8	3V w/ 40MHz SPI bus interf.	3.05	2.89	2.73
321672	M25P80-AVMN6	SOIC-8	1M x 8	3V w/ 40MHz SPI bus interf.	3.35	2.85	2.83

## Flash Memory

NEW

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
698373	M29F040B45K1	PLCC-32	512k x 8	45ns, 5V, uniform block	\$4.09	\$3.87	\$3.65
698381	M29F040B70K6	PLCC-32	512k x 8	70ns, 5V, uniform block	3.29	3.01	2.85
698390	M29F400B45N1	TSOP-48	512k x 8	45ns, 5V, bottom boot	★	Call	Call
698402	M29W040B90K1	PLCC-32	512k x 8	90ns, 2.7-3.6V, uniform block	2.59	2.30	1.99

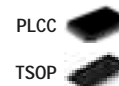
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## RENESAS Flash Memory

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
788791	HD64F2134AFA20	QFP-80	5V 16-bit single chip microcomputer	★	Call	Call
788803	HD64F2134FAA20	QFP-80	5V 16-bit single chip microcomputer	29.65	27.71	25.98
788811	HD64F2138AFA20	QFP-80	5V 16-bit single chip microcomputer	★	Call	Call
788820	HD64F2145BTE20	TQFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788838	HD64F2148ATE20	TQFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788846	HD64F2148FAA20	QFP-100	5V 16-bit single chip microcomputer	33.29	31.11	29.16
788854	HD64F2166VTE33	TQFP-144	16-bit single chip microcomputer	★	Call	Call
788862	HD64F2168VTE33	TQFP-144	16-bit single chip microcomputer	★	Call	Call
788871	HD64F2318VTE25	TQFP-100	16-bit single chip microcomputer	25.95	24.24	22.73
788889	HD64F2357F20V	QFP-128	16-bit single chip microcomputer	★	Call	Call
788897	HD64F2623FA20	QFP-100	16-bit single chip microcomputer	39.35	36.73	34.44
788900	HD64F2633TE25	TQFP-120	16-bit single chip microcomputer	★	Call	Call
788918	HD64F2638WF20J	QFP-128	16-bit single chip microcomputer	★	Call	Call
788926	HD64F3048F16	QFP-100	5V 16-bit single chip microcomputer	39.69	37.08	34.76
788934	HD64F3048VTF8	TQFP-100	3V 16-bit single chip microcomputer	★	Call	Call
788942	HD64F3052BF25	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788951	HD64F3062BF25	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788969	HD64F3062BF125	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788977	HD64F3067RF20	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
788985	HD64F3337YCP16	PLCC-84	16-bit single chip microcomputer	★	Call	Call
788993	HD64F3337YFLH16	QFP-80	16-bit single chip microcomputer	★	Call	Call

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## RENESAS Flash Memory (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
789005	HD64F36049H	QFP-80	16-bit single chip microcomputer	★	Call	Call
789013	HD64F3642AH	QFP-64	16-bit single chip microcomputer	★	Call	Call
875843	HD64F3644H	QFP-64	16-bit single chip microcomputer	★	Call	Call
789021	HD64F3644H	QFP-64	16-bit single chip microcomputer	★	Call	Call
789030	HD64F3687FP	LQFP-64	16-bit single chip microcomputer	★	Call	Call
789048	HD64F3694GFP	LQFP-64	16-bit single chip microcomputer	★	Call	Call
789056	HD64F7044F28	QFP-112	32-bit RISC microcomputer	★	Call	Call
789064	HD64F7045F28	QFP-144	32-bit RISC microcomputer	★	Call	Call
789072	HD64F7047F40	QFP-100	32-bit RISC microcomputer	★	Call	Call
789081	HD64N366FPI	LQFP-64	16-bit single chip microcomputer	★	Call	Call
789099	HM62V8100LTI-SSL	TSOP-44	16-bit single chip microcomputer	★	Call	Call
789101	M30262F6GP#D5	LQFP-48	16-bit single CMOS chip microcomputer	★	Call	Call
789110	M30620FCAPF#D5	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789128	M30620FCPPF#D5	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789136	M30620FCPPF#D3C	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789144	M30624FGPPF#D5C	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call

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## MICRON DDR SDRAM

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
699122	MT46V16M16TG-6T:F	TSOP-66	16M x 16	333MHz, 6ns	★	Call	Call
699181	MT46V32M16TG-6T IT:F	TSOP-66	32M x 16	333MHz, 6ns, ind. temp.	16.89	16.39	15.09

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## MICRON SDRAM

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
699392	MT48LC2M32B2TG-7.G TR	TSOP-86	2M x 32	143MHz, 5.5ns	★	Call	Call
699456	MT48LC4M16A2TG-7S IT:C	TSOP-54	4M x 16	133MHz, 7.5ns, ind. temp.	★	Call	Call
699464	MT48LC4M16A2TG-7S IT:C TR	TSOP-54	4M x 16	133MHz, 7.5ns, ind. temp	★	Call	Call
699333	MT48LC16M16A2TG-7E:D	TSOP-54	16M x 16	133MHz, 7.5ns	★	Call	Call

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## ST NVRAM with RTC

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Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
698429	M48T02-150PC1	DIP-24	2K x 8	5V, 150ns, 16kbit timepr SRAM	\$12.65	\$11.94	\$10.85
698445	M48T12-150PC1	DIP-24	2K x 8	5V, 150ns, 16kbit timepr SRAM	12.65	11.75	10.85
698437	M48T08-150PC1	DIP-28	8K x 8	5V, 150ns, 64kbit timepr SRAM	15.79	14.55	13.73
698461	M48T35AV-10MHE	SOIC-28	32K x 8	3.3V, 10ns, 256kbit timepr SRAM	14.35	13.94	13.54
698470	M48T35AV-10PC1	DIP-28	32K x 8	3.3V, 10ns, 256kbit timepr SRAM	16.79	15.52	13.78
698488	M48T35Y-70PC1	DIP-28	32K x 8	5V, 70ns, 256kbit timepr SRAM	14.45	13.68	12.90

## Legacy DRAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41662	4164-150	DIP-16	64K x 1	150ns (MCM6665-15)	\$ .71	\$ .64	\$ .58
41574	41464-10	DIP-16	64K x 4	100ns (HY53C464S-10)	1.69	1.65	1.59
41398	41256-120	DIP-16	256K x 1	120ns (MB81256-12)	.73	.62	.47
42315	514256P-80	DIP-20	256K x 4	80ns (UPD424256-80)	2.49	2.25	2.05
93374	514256P-70	DIP-20	256K x 4	70ns (TC514256P-70)	2.79	2.49	2.19
128688	HM514260	SOJ	256K x 16	70ns	3.39	3.05	2.75
42219	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10)	3.11	2.80	2.52

◆ Pull = Extra Savings

## Legacy Memory Modules

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30	\$4.95	\$3.71
130729	JEED07208	8MB	60ns SIMM EDO	2M x 32	72	2.69	2.40
148460	8MBX36-60	32MB	60ns SIMM	8M x 36	72	40.95	30.71
148443	JEED07232	32MB	60ns SIMM EDO	8M x 32	72	43.95	32.96
148419	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	65.95	59.95
148451	JEED07264	64MB	60ns SIMM EDO	16M x 32	72	30.95	28.95

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

◆ RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Static RAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
38931	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	\$1.69	\$1.55	\$1.35
42198	5101	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.99	7.19	6.49
38957	2114N	DIP-18	1K x 4	4-Kbit, 5V, 450ns	2.29	1.99	1.79
43238	6514	DIP-18	1K x 4	4-Kbit, 5V, 300ns	3.95	3.65	3.35
38973	2114N-2	DIP-18	1K x 4	4-Kbit, 5V, 200ns	2.49	2.09	1.89
38981	2114N-2L	DIP-18	1K x 4	4-Kbit, 5V, 450ns, LP	2.25	2.05	1.85
392243	CY7C131-55JC	PLCC-52	1K x 8	8-Kbit, 5V, 55ns	5.75	4.89	3.67
392462	CY7C4225V-15ASC	STOFP-64	1K x 18	18-Kbit, 3.3V, 15ns Synch. FIFO	17.79	17.61	17.42
38746	2016-20	DIP-24	2K x 8	16-Kbit, 5V, 200ns	.80	.73	.66
698517	M48202-200PC1	DIP-24	2K x 8	16-Kbit, 5V, 200ns, zero power	7.15	6.79	6.39
114260	DS1220Y-150	DIP-24	2K x 8	16-Kbit, 5V, 150ns, NV SRAM	11.95	10.95	9.85
698509	M48202-150PC1	DIP-24	2K x 8	16-Kbit, 5V, 150ns, zero power	8.75	7.99	7.24
698533	M48212-150PC1	DIP-24	2K x 8	16-Kbit, 5V, 150ns, zero power	9.35	8.54	7.73
25911	MK48Z02B-15	DIP-24	2K x 8	16-Kbit, 5V, 150ns	8.70	7.43	5.57
42809	6116P-3	DIP-24	2K x 8	16-Kbit, 5V, 150ns	1.49	1.29	1.09
42753	6116LP-3	DIP-24	2K x 8	16-Kbit, 5V, 150ns, LP	1.95	1.75	1.59
38738	2016-12	DIP-24	2K x 8	16-Kbit, 5V, 120ns	1.25	1.06	.80
42796	6116P-2	DIP-24	2K x 8	16-Kbit, 5V, 120ns	1.59	1.39	1.29
42788	6116P-1	DIP-24	2K x 8	16-Kbit, 5V, 100ns	1.95	1.75	1.63
42737	6116LP-1	DIP-24	2K x 8	16-Kbit, 5V, 100ns, LP	1.99	1.79	1.65
242675	6116-70	DIP-24	2K x 8	16-Kbit, 5V, 70ns	2.09	1.78	1.33
392446	CY7C4235V-15ASC	STOFP-64	2K x 18	36-Kbit, 3.3V, 15ns, Synch. FIFO	16.59	16.34	16.08
392294	CY6264-70SNC	SOIC-28	8K x 8	64-Kbit, 5V, 70ns	2.99	2.54	2.16
85121	6264LP-70	DIP-28	8K x 8	64-Kbit, 5V, 70ns, LP	3.55	3.17	2.86
42884	6264LP-10	DIP-28	8K x 8	64-Kbit, 5V, 100ns, LP	2.65	2.49	2.25
42921	6264P-10	DIP-28	8K x 8	64-Kbit, 5V, 100ns	2.65	2.09	2.03
698525	M48208-100PC1	DIP-28	8K x 8	64-Kbit, 5V, 100ns, zero power	11.75	11.05	10.65
698541	M48218-100PC1	DIP-28	8K x 8	64-Kbit, 5V, 100ns, zero power	10.95	10.25	9.55
42892	6264LP-12	DIP-28	8K x 8	64-Kbit, 5V, 120ns, LP	2.99	2.66	2.34
42930	6264P-12	DIP-28	8K x 8	64-Kbit, 5V, 120ns	2.65	2.39	2.15
114278	DS1225AB-150	DIP-28	8K x 8	64-Kbit, 5V, 150ns, NV SRAM	15.99	12.65	9.89
114307	DS1225Y-200	DIP-28	8K x 8	64-Kbit, 5V, 200ns, NV SRAM	15.95	14.49	11.65
242333	CY7C185-35	DIP-28	8K x 8	64-Kbit, 5V, 35ns Async.	3.29	2.80	2.10
242499	DS1230Y-70	DIP-28	32K x 8	256-Kbit, 5V, 70ns, NV SRAM	19.85	15.35	12.75
177113	DS1230Y-100	DIP-28	32K x 8	256-Kbit, 5V, 100ns, NV SRAM	15.75	14.60	11.75
114323	DS1230Y-150	DIP-28	32K x 8	256-Kbit, 5V, 150ns, NV SRAM	20.25	17.10	10.25
41970	43256-10L	DIP-28	32K x 8	256-Kbit, 5V, 100ns, LP	5.49	4.99	4.49
41988	43256-12L	DIP-28	32K x 8	256-Kbit, 5V, 120ns, LP	4.99	4.49	4.09
242376	CY7C199P-35	DIP-28	32K x 8	256-Kbit, 5V, 35ns, LP Async.	1.99	1.69	1.27
75037	UM61M256K-15	DIP-28	32K x 8	256-Kbit, 5V, 15ns	3.39	2.99	2.69
82472	62256LP-70	DIP-28	32K x 8	256-Kbit, 5V, 70ns, LP	4.95	4.50	4.05
391793	CY62256L-70PC	DIP-28	32K x 8	256-Kbit, 5V, 70ns	2.85	2.42	1.82
391814	CY62256L-70SNC	SOIC-28	32K x 8	256-Kbit, 5V, 70ns	2.55	2.05	1.65
391822	CY62256L-70PC	DIP-28	32K x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80
391890	CY62256L-70SNC	SOIC-28	32K x 8	256-Kbit, 5V, 70ns, LP	2.85	2.42	1.82
391945	CY62256L-70ZC	TSSOP-28	32K x 8	256-Kbit, 5V, 70ns, LP	2.85	2.42	1.82
391865	CY62256VLL-70ZC	TSSOP-28	32K x 8	256-Kbit, 3V, 70ns, LP	2.05	1.74	1.38
42876	62256LP-85	DIP-28	32K x 8	256-Kbit, 5V, 85ns, LP	3.29	2.66	2.13
42833	62256LP-10	DIP-28	32K x 8	256-Kbit, 5V, 100ns, LP	3.75	3.20	2.40
42850	62256LP-12	DIP-28	32K x 8	256-Kbit, 5V, 120ns, LP	3.89	3.49	3.19
391857	CY7C1399B-12VC	SOJ-28	32K x 8	256-Kbit, 3.3V, 12ns, Async.	1.55	1.50	1.48
693935	M5M5258P-35	DIP-24	64K x 4	256-Kbit, 5V, 35ns	1.95	1.75	1.59
391929	CY7C1021BV33L-152C	TSSOP-44	64K x 16	1-Mbit, 3.3V, 15ns, LP Async.	3.29	2.80	2.76
391831	CY62128BL-70SC	SOIC-32	128K x 8	1-Mbit, 5V, 70ns, LP	2.45	2.05	1.85
391996	CY62128BL-70ZC	TSSOP-32	128K x 8	1-Mbit, 5V, 70ns, LP	2.85	2.30	2.10
279873	628128S-70	SOP-32	128K x 8	1-Mbit, 5V, 70ns	2.49	2.19	1.89
131810	628128LP-70	DIP-32	128K x 8	1-Mbit, 5V, 70ns, LP	8.99	7.39	6.69
103982	628128LP-85	DIP-32	128K x 8	1-Mbit, 5V, 85ns, LP	10.65	9.03	6.76

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# SRAM, Prog. Logic, 74AC/ACT & 74AHC/AHCT Standard Logic

Color Code Legend			
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## Static RAM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
391902	CY7C1019CV33-12VC	SOJ-32	128k x 8	1-Mbit, 3.3V, 12ns, Asynch. ....	\$2.75	\$2.65	\$2.25
392358	CY7C1041CV33-12ZC	TSSOP-44	256k x 16	1-Mbit, 3.3V, 12ns, Asynch. ....	4.55	4.16	3.92
157358	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP .....	19.19	17.15	16.35
280049	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch. ....	6.29	5.69	5.12

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## PALs and GALs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
28020	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array ..	\$2.25	\$1.75	\$1.31
652615	16V8-7	DIP-20	7ns 64 x 32 AND array .....	3.29	2.82	2.59
88399	16V8-10	DIP-20	10ns 64 x 32 AND array .....	1.99	1.79	1.59
37452	16V8-15	DIP-20	15ns 64 x 32 AND array .....	1.59	1.41	1.27
37461	16V8-25	DIP-20	25ns 64 x 32 AND array .....	1.35	1.16	1.05
105953	18CV8BP-25	DIP-20	25ns 74 x 36 AND array .....	2.70	2.39	2.15
88292	20V8-10	DIP-24	10ns 64 x 40 AND array .....	2.22	1.89	1.42
38658	20V8-15	DIP-24	15ns 64 x 40 AND array .....	1.86	1.27	1.15
38666	20V8-25	DIP-24	25ns 64 x 40 AND array .....	1.65	1.34	1.26
105996	22CV10AP-25	DIP-24	25ns 132 x 44 AND array .....	2.59	2.35	2.05
123801	22V10-10	DIP-24	10ns 132 x 44 AND array .....	5.49	4.99	4.49
39159	22V10-15	DIP-24	15ns 132 x 44 AND array .....	4.49	3.95	3.55
39167	22V10-25	DIP-24	25ns 132 x 44 AND array .....	4.25	3.73	3.31

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6  
 \*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Atmel EEPLDs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
846559	ATF16V8BQL-15JL	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr .....	★	Call	Call
846575	ATF16V8BQL-15JL	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr .....	★	Call	Call
846639	ATF16V8BQL-15PL	DIP-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr .....	★	Call	Call
846663	ATF16V8BQL-15PU	DIP-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr .....	★	2.09	1.74
846778	ATF22V10C-15PU	DIP-24	15ns, 12 inputs, 10 I/O, I-temp. ....	★	Call	Call
764393	ATF22V10C-15SC	SOIC-24	15ns, 12 inputs, 10 I/O, C-temp. ....	★	Call	Call
764414	ATF22V10CQ-15JC	PLCC-28	15ns, 12 inputs, 10 I/O, C-temp., qtr pwr .....	★	Call	Call
764449	ATF22V10CQ-15PC	DIP-24	15ns, 12 inputs, 10 I/O, C-temp., qtr pwr .....	★	Call	Call
764465	ATF22V10CQZ-20JC	PLCC-28	20ns, 12 inputs, 10 I/O, C-temp., qtr pwr .....	★	Call	Call
846831	ATF22V10CQZ-20PC	DIP-28	20ns, 12 inputs, 10 I/O, C-temp., qtr pwr .....	★	Call	Call
764473	ATF22V10CQZ-20PL	DIP-24	20ns, 12 inputs, 10 I/O, I-temp., qtr pwr .....	★	Call	Call
764490	ATF22V10CZ-15PC	DIP-24	15ns, 12 inputs, 10 I/O, C-temp., zero pwr .....	★	Call	Call
764107	ATF16LV8C-10JC	PLCC-20	10ns, 10 inputs, 8 I/O, C-temp .....	★	Call	Call
764140	ATF16V8B-10JC	PLCC-20	10ns, 10 inputs, 8 I/O, C-temp .....	★	Call	Call
764158	ATF16V8B-15JL	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp .....	★	Call	Call
846495	ATF16V8B-15PU	DIP-20	15ns, 10 inputs, 8 I/O, C-temp .....	1.59	1.47	1.35
764174	ATF16V8B-15SC	SOIC-20	15ns, 10 inputs, 8 I/O, C-temp .....	★	Call	Call

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## PEEL™ PLDs

PEELs offer the convenience of simple and complex logic reprogrammability.

Part No.	Product No.	Pkg.	Speed	Icc	Inputs	I/O	Vcc	Temp.	1	10	100
312995	16CV8P-25	DIP-20	25ns	12mA	10	8	5	C ...	\$1.19	\$0.82	\$0.74
105953	18CV8P-25	DIP-20	25ns	25mA	10	8	5	C ...	2.70	2.39	2.15
314886	22CV10API-25	DIP-24	25ns	18mA	12	10	5	I ...	2.85	2.45	1.99
315205	22CV10AP-10L	DIP-24	10ns	50mA	12	10	5	C ...	3.49	3.15	2.04
105996	22CV10AP-25	DIP-24	25ns	5µA	12	10	5	C ...	2.59	2.35	2.05
315361	22CV10AP-7	DIP-24	7ns	50mA	12	10	5	C ...	4.59	3.41	2.82

† I = Industrial Temp range: -40°C to +85°C; C = Commercial Temp. range: 0 to +70°C



▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## TEXAS INSTRUMENTS 74AC/ACT Series

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
830881	SN74ACT00N	DIP-14	Quad 2-input positive NAND gates .....	★	\$0.184	\$0.172
830768	SN74AC00PW	TSSOP-14	Quad 2-input positive NAND gates .....	★	.221	.206
912077	SN74ACT04D	SOIC-14	Hex inverters .....	★	.184	.172
830901	SN74ACT04N	DIP-14	Hex inverters .....	★	.246	.229
830784	SN74AC04PW	TSSOP-14	Hex inverters .....	★	.184	.172
912157	SN74ACT04PW	TSSOP-14	Hex inverters .....	★	.184	.172
911816	SN74AC08PW	TSSOP-14	Quad 2-input positive AND gates .....	★	.221	.206
830928	SN74ACT11D	SOIC-14	Triple 3-input positive AND gates .....	★	.221	.206
830805	SN74ACT14PW	TSSOP-14	Hex schmitt trigger inverters .....	★	.184	.172
831074	SN74ACT14PW	TSSOP-14	Dual pos. edge-trig. D-type F-F w/ clear ...	★	.221	.206
831120	SN74ACT86PW	TSSOP-14	Quad 2-input exclusive-or gates .....	★	.246	.229
830821	SN74AC244PW	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs .....	★	.217	.205
912350	SN74ACT244PW	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs .....	★	.217	.205
831015	SN74ACT373N	DIP-20	Octal D-type transparent latches w/ 3-st. outputs ..	.55	.483	.455
830848	SN74AC53DNG	SOIC-20	Octal transparent D-type latches w/ 3-st. outputs	1.05	.96	.91
830864	SN74AC573PW	TSSOP-20	Octal D-type transparent latches w/ 3-st. outputs	★	.295	.275
831040	SN74ACT574N	DIP-20	Octal D-type triggered flip-flops with 3-st. outputs	★	.278	.262
830952	SN74ACT1284DW	SOIC-20	7-bit bus interface w/ 3-st. outputs .....	.59	.531	.50
830987	SN74ACT2228DW	SOIC-24	Dual 64 x 1, Dual 256 x 1 clocked FIFO memories ..	6.25	5.80	5.46
831103	SN74ACT7814-40DL	SSOP-56	64 x 18 strobed FIFO memory .....	10.39	9.66	9.10
912544	SN74ACT8990FN	PLCC-44	Test bus ctrl. IEEE std. 1149.1 tap masters ..	46.79	43.50	40.98
831154	SN74ACT8997DW	SOIC-28	Scan-path link w/ 4-bit ID bus scan ctrl. (JTAG)	12.99	12.08	11.38

## TEXAS INSTRUMENTS 74AHC Series

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
831197	SN74AHC02PW	TSSOP-14	Quad 2-input positive NOR gates .....	★	\$0.172	\$0.16
912691	SN74AHC04PW	TSSOP-14	Hex inverters .....	★	.135	.126
831226	SN74AHC08PW	TSSOP-14	Quad 2-input positive AND gates .....	★	.135	.126
831461	SN74AHC1608DCKT	SC70	Single 2-input positive AND gate .....	★	Call	Call
831373	SN74AHC14PW	TSSOP-14	Hex schmitt-trigger inverters .....	★	.135	.126
831533	SN74AHC1614BVT	SOT-23	Single schmitt-trigger inverter gate .....	★	Call	Call
831592	SN74AHC32PW	TSSOP-14	Quad 2-input positive OR gates .....	★	.135	.126
831568	SN74AHC1632BVT	SOT-23	Single 2-input positive OR gate .....	★	Call	Call
831664	SN74AHC74D	SOIC-14	Dual pos. edge-trig. D-type F-F w/ clr. & preset	★	.135	.126
831251	SN74AHC123AD	SOIC-16	Dual retriggerable monostable multivibrators	★	.27	.252
912739	SN74AHC125D	SOIC-14	Quad buffer gates w/ 3-st. outputs .....	★	.147	.137
831509	SN74AHC16250BVT	SOT-23	Single bus buffer gate w/ 3-st. outputs ..	★	Call	Call
831285	SN74AHC126D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs ..	★	.216	.202
831314	SN74AHC132D	SOIC-14	Dual positive NAND gates w/ schmitt-trig. inputs	★	.216	.202
831349	SN74AHC138PW	TSSOP-16	3-to-8 line decoders/demultiplexers .....	★	.27	.252
913281	SN74AHC573DW	SOIC-20	Octal transparent D-type latches w/ 3-st. outputs	★	.209	.195
831621	SN74AHC595D	SOIC-16	8-bit shift registers w/ 3-st. output registers	★	.362	.341
831648	SN74AHC595PW	TSSOP-16	8-bit shift registers w/ 3-st. output registers	★	.65	.58
831402	SN74AHC16244DL	SSOP-48	16-bit buffers/drivers w/ 3-st. outputs	1.19	1.11	1.04
831437	SN74AHC16374DL	SSOP-48	16-bit edge-trig. D-type flip-flops w/ 3-st. outputs	1.19	1.11	1.04

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
831841	SN74AHCT1600BVT	SOT-23	Single 2-input positive NAND gate .....	★	Call	Call
913328	SN74AHCT02D	SOIC-14	Quad 2-input positive NOR gates .....	★	.135	.126
832173	SN74AHCT04PW	TSSOP-14	Hex inverters .....	★	.172	.16
831875	SN74AHCT1604BVT	SOT-23	Single inverter gate .....	★	Call	Call
831904	SN74AHCT1604DCKT	SC70	Single inverter gate .....	★	Call	Call
831939	SN74AHCT1608BVT	SOT-23	Single 2-input positive AND gate .....	★	Call	Call
913820	SN74AHCT32D	SOIC-14	Quad 2-input positive OR gates .....	★	.135	.126
831699	SN74AHCT125D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs ..	★	.184	.172
831728	SN74AHCT125PW	TSSOP-14	Quad bus buffer gates w/ 3-st. outputs ..	★	.209	.195
831752	SN74AHCT126D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs ..	★	.184	.172

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74AHCT (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
<b>831787</b>	SN74AHCT132D <b>R</b> <b>▲</b>	SOIC-14	Quad pos. NAND gates w/ schmitt-trigger inputs .. *	\$ .258	\$ .241	
<b>831963</b>	SN74AHCT540PW <b>R</b> <b>▲</b> <b>TSSOP-20</b>		Octal buffers/drivers w/ 3-st. outputs .... *	.326	.307	
<b>831998</b>	SN74AHCT541DW <b>R</b> <b>▲</b> <b>SOIC-20</b>		Octal buffers/drivers w/ 3-st. outputs .... *	.27	.252	
<b>832026</b>	SN74AHCT541PW <b>R</b> <b>▲</b> <b>TSSOP-20</b>		Octal buffers/drivers w/ 3-st. outputs .... *	.295	.275	
<b>832051</b>	SN74AHCT573DW <b>R</b> <b>▲</b> <b>SOIC-20</b>		Octal trans. D-type latches w/ 3-st. outputs .... *	.209	.195	
<b>832085</b>	SN74AHCT594D <b>R</b> <b>▲</b> <b>SOIC-16</b>		8-bit shift registers w/ output registers .65	.58	.546	
<b>832114</b>	SN74AHCT594PW <b>R</b> <b>▲</b> <b>TSSOP-16</b>		8-bit shift registers w/ output registers .65	.58	.546	
<b>913897</b>	SN74AHCT595D <b>R</b> <b>▲</b> <b>SOIC-16</b>		8-bit shift registers w/ 3-st. output registers .... *	.241	.227	
<b>832149</b>	SN74AHCT595PW <b>R</b> <b>▲</b> <b>TSSOP-16</b>		8-bit shift registers w/ 3-st. output registers .... *	.241	.227	
<b>913571</b>	SN74AHCT1624DL <b>R</b> <b>▲</b> <b>SSOP-48</b>		16-bit buffers/drivers w/ 3-st. outputs 1.55	1.45	1.36	
<b>913601</b>	SN74AHCT16245DL <b>R</b> <b>▲</b> <b>SSOP-48</b>		16-bit bus transceivers w/ 3-st. outputs ..	1.55	1.45	1.36
<b>831808</b>	SN74AHCT16373DL <b>R</b> <b>▲</b> <b>SSOP-48</b>		16-bit transparent D-type latches w/ 3-st. outputs 1.55	1.45	1.36	

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74HC Series

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Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
<b>835201</b>	SN74HC00D <b>R</b> <b>▲</b>	SOIC-14	Quad 2-input positive NAND gates .....	\$ .135	\$ .126	
<b>835219</b>	SN74HC00N <b>R</b> <b>▲</b>	DIP-14	Quad 2-input positive NAND gates .....	.16	.149	
<b>914591</b>	SN74HC03D <b>R</b> <b>▲</b>	SOIC-14	Quad 2-input pos. NAND w/ open-drain outputs ... *	.135	.126	
<b>914611</b>	SN74HC03N <b>R</b> <b>▲</b>	DIP-14	Quad 2-input pos. NAND w/ open-drain outputs ... *	.157	.148	
<b>835227</b>	SN74HC04DE4 <b>R</b> <b>▲</b>	SOIC-14	Hex inverters .....	★	Call	Call
<b>835235</b>	SN74HC04N <b>R</b> <b>▲</b>	DIP-14	Hex inverters .....	.16	.149	
<b>835243</b>	SN74HC04PWG4 <b>R</b> <b>▲</b>	TSSOP-14	Hex inverters .....	.135	.126	
<b>914671</b>	SN74HC05D <b>R</b> <b>▲</b>	SOIC-14	Hex inverters w/ open-drain outputs .... *	.135	.126	
<b>914697</b>	SN74HC05N <b>R</b> <b>▲</b>	DIP-14	Hex inverters w/ open-drain outputs..... *	.169	.159	
<b>835278</b>	SN74HC10N <b>R</b> <b>▲</b>	DIP-14	Triple 3-input positive NAND gates .....	.157	.148	
<b>914751</b>	SN74HC11D <b>R</b> <b>▲</b>	SOIC-14	Triple 3-input positive AND gates .....	.147	.137	
<b>835340</b>	SN74HC14N <b>R</b> <b>▲</b>	DIP-14	Hex schmitt-trigger inverters .....	.16	.149	
<b>915403</b>	SN74HC20D <b>R</b> <b>▲</b>	SOIC-14	Dual 4-input positive NAND gates .....	.135	.126	
<b>915438</b>	SN74HC20N <b>R</b> <b>▲</b>	DIP-14	Dual 4-input positive NAND gates .....	.157	.148	
<b>835454</b>	SN74HC21D <b>R</b> <b>▲</b>	SOIC-14	Dual 4-input positive AND gates .....	.135	.126	
<b>915462</b>	SN74HC21N <b>R</b> <b>▲</b>	DIP-14	Dual 4-input positive AND gates .....	.157	.148	
<b>814645</b>	SN74HC27D <b>R</b> <b>▲</b>	SOIC-14	Triple 3-input positive NOR gates .....	.135	.126	
<b>915876</b>	SN74HC27N <b>R</b> <b>▲</b>	DIP-14	Triple 3-input positive NOR gates .....	.157	.148	
<b>814670</b>	SN74HC32D <b>R</b> <b>▲</b>	SOIC-14	Quad 2-input positive OR gates .....	.135	.126	
<b>916220</b>	SN74HC42D <b>R</b> <b>▲</b>	SOIC-16	4-to-10 line decoders .....	.41	.387	
<b>814856</b>	SN74HC42N <b>R</b> <b>▲</b>	DIP-16	4-to-10 line decoders .....	.65	.58	.546
<b>815322</b>	SN74HC74N <b>R</b> <b>▲</b>	DIP-14	Dual D-type pos. edge-trig. F-F w/ clear & preset... *	.157	.148	
<b>815357</b>	SN74HC86N <b>R</b> <b>▲</b>	DIP-14	Quad 2-input exclusive OR gates .....	.172	.16	
<b>835251</b>	SN74HC109D <b>R</b> <b>▲</b>	SOIC-16	Dual J-K pos. edge-trig. F-F w/ clear & preset ... *	.184	.172	
<b>835260</b>	SN74HC109N <b>R</b> <b>▲</b>	DIP-16	Dual J-K pos. edge-trig. F-F w/ clear & preset ... *	.209	.195	
<b>835286</b>	SN74HC112D <b>R</b> <b>▲</b>	SOIC-16	Dual J-K neg. edge-trig. F-F w/ clear & preset ... *	.169	.159	
<b>835294</b>	SN74HC112N <b>R</b> <b>▲</b>	DIP-16	Dual J-K neg. edge-trig. F-F w/ clear & preset ... *	.265	.25	
<b>914814</b>	SN74HC126D <b>R</b> <b>▲</b>	SOIC-14	Quad bus buffer gates w/ 3-st. outputs... *	.157	.148	
<b>914849</b>	SN74HC126N <b>R</b> <b>▲</b>	DIP-14	Quad bus buffer gates w/ 3-st. outputs .. *	.196	.183	
<b>835307</b>	SN74HC132N <b>R</b> <b>▲</b>	DIP-14	Quad pos. NAND gates w/ schmitt-trigger inputs .. *	.196	.183	
<b>835315</b>	SN74HC138N <b>R</b> <b>▲</b>	DIP-16	3-to-8 line decoders/demultiplexers .....	.196	.183	
<b>835323</b>	SN74HC139PW <b>R</b> <b>▲</b>	TSSOP-16	Dual 2-to-4 line decoders/demultiplexers .....	.172	.16	
<b>914953</b>	SN74HC148D <b>R</b> <b>▲</b>	SOIC-16	8-to-3 line priority encoders .....	.193	.182	
<b>835331</b>	SN74HC148DE4 <b>R</b> <b>▲</b>	SOIC-16	8-to-3 line priority encoders .....	.196	.183	
<b>914988</b>	SN74HC148N <b>R</b> <b>▲</b>	DIP-16	8-to-3 line priority encoders .....	.217	.205	
<b>915032</b>	SN74HC151D <b>R</b> <b>▲</b>	SOIC-16	8-to-1 line data selectors/multiplexers .... *	.205	.193	
<b>835358</b>	SN74HC151N <b>R</b> <b>▲</b>	DIP-16	8-to-1 line data selectors/multiplexers ... *	.233	.218	
<b>915067</b>	SN74HC153D <b>R</b> <b>▲</b>	SOIC-16	Dual 4-to-1 line data selector/multiplexers... *	.193	.182	
<b>835366</b>	SN74HC153DE4 <b>R</b> <b>▲</b>	SOIC-16	Dual 4-to-1 line data selector/multiplexers .....	★	Call	Call
<b>835374</b>	SN74HC153N <b>R</b> <b>▲</b>	DIP-16	Dual 4-to-1 line data selector/multiplexers .. *	.216	.202	
<b>835382</b>	SN74HC157N <b>R</b> <b>▲</b>	DIP-16	Quad 2-to-1 line data selector/multiplexers... *	.205	.193	
<b>835391</b>	SN74HC158N <b>R</b> <b>▲</b>	DIP-16	Quad 2-to-1 line data selector/multiplexers ... *	.324	.303	
<b>835403</b>	SN74HC161N <b>R</b> <b>▲</b>	DIP-16	4-bit synchronous binary counters .....	.212	.20	

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74HC Series (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
<b>915121</b>	SN74HC163D <b>R</b> <b>▲</b>	SOIC-16	4-bit synchronous binary counters .....	\$ .221	\$ .206	
<b>835411</b>	SN74HC163DE4 <b>R</b> <b>▲</b>	SOIC-16	4-bit synchronous binary counters .....	.221	.206	
<b>915219</b>	SN74HC166D <b>R</b> <b>▲</b>	SOIC-16	8-bit parallel-load shift registers .....	.196	.183	
<b>915243</b>	SN74HC166N <b>R</b> <b>▲</b>	DIP-16	8-bit parallel-load shift registers .....	.216	.202	
<b>835420</b>	SN74HC166PW <b>R</b> <b>▲</b>	TSSOP-16	8-bit parallel-load shift registers .....	.196	.183	
<b>915278</b>	SN74HC175D <b>R</b> <b>▲</b>	SOIC-16	Quad D-type F-F w/ clear .....	.193	.182	
<b>915315</b>	SN74HC175N <b>R</b> <b>▲</b>	DIP-16	Quad D-type F-F w/ clear .....	.216	.202	
<b>835438</b>	SN74HC175PW <b>R</b> <b>▲</b>	TSSOP-16	Quad D-type F-F w/ clear .....	.196	.183	
<b>915340</b>	SN74HC191D <b>R</b> <b>▲</b>	SOIC-16	4-bit synchronous up/down binary counters .... *	.221	.206	
<b>915374</b>	SN74HC191N <b>R</b> <b>▲</b>	DIP-16	4-bit synchronous up/down binary counters .... *	.241	.227	
<b>835446</b>	SN74HC193N <b>R</b> <b>▲</b>	DIP-16	4-bit synch. up/down counters (dual clock w/ clear) .. *	.246	.229	
<b>915497</b>	SN74HC241DW <b>R</b> <b>▲</b>	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs .... *	.265	.25	
<b>915526</b>	SN74HC241N <b>R</b> <b>▲</b>	DIP-20	Octal buffers & line drivers w/ 3-st. outputs .... *	.314	.296	
<b>835462</b>	SN74HC244N <b>R</b> <b>▲</b>	DIP-20	Octal buffers & line drivers w/ 3-st. outputs .... *	.241	.227	
<b>835471</b>	SN74HC245N <b>R</b> <b>▲</b>	DIP-20	Octal bus transceivers w/ 3-st. outputs .. *	.265	.25	
<b>915649</b>	SN74HC251D <b>R</b> <b>▲</b>	SOIC-16	Data selector/multiplexer w/ 3-st. outputs .....	.205	.193	
<b>915665</b>	SN74HC251N <b>R</b> <b>▲</b>	DIP-16	Data selector/multiplexer w/ 3-st. outputs .....	.229	.216	
<b>915690</b>	SN74HC257D <b>R</b> <b>▲</b>	SOIC-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs .. *	.205	.193	
<b>915729</b>	SN74HC257N <b>R</b> <b>▲</b>	DIP-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs .. *	.241	.227	
<b>915753</b>	SN74HC259D <b>R</b> <b>▲</b>	SOIC-16	8-bit addressable latches .....	.205	.193	
<b>915817</b>	SN74HC259N <b>R</b> <b>▲</b>	DIP-16	8-bit addressable latches .....	.265	.25	
<b>835489</b>	SN74HC273N <b>R</b> <b>▲</b>	DIP-20	Octal D-type flip-flops w/ clear .....	.241	.227	
<b>835497</b>	SN74HC273PW <b>R</b> <b>▲</b>	TSSOP-20	Octal D-type flip-flops w/ clear .....	★	Call	Call
<b>915930</b>	SN74HC365D <b>R</b> <b>▲</b>	SOIC-16	Hex buffers & line drivers w/ 3-st .....	.29	.273	
<b>814709</b>	SN74HC367D <b>R</b> <b>▲</b>	SOIC-16	Hex buffers & line drivers w/ 3-st .....	.295	.275	
<b>915964</b>	SN74HC367N <b>R</b> <b>▲</b>	DIP-16	Hex buffers & line drivers w/ 3-st .....	.29	.273	
<b>814725</b>	SN74HC368D <b>R</b> <b>▲</b>	SOIC-16	Hex invert buffers/line drivers w/ 3-st .... *	.295	.275	
<b>915999</b>	SN74HC368N <b>R</b> <b>▲</b>	DIP-16	Hex invert buffers/line drivers w/ 3-st ... *	.205	.193	
<b>916115</b>	SN74HC373DW <b>R</b> <b>▲</b>	SOIC-20	Octal D-type flip-flops w/ clock enable ... *	.216	.202	
<b>916140</b>	SN74HC377N <b>R</b> <b>▲</b>	DIP-20	Octal D-type flip-flops w/ clock enable ... *	.241	.227	
<b>814776</b>	SN74HC393N <b>R</b> <b>▲</b>	DIP-14	Dual 4-bit binary counters .....	.209	.195	
<b>814805</b>	SN74HC393PW <b>R</b> <b>▲</b>	TSSOP-14	Dual 4-bit binary counters .....	.164	.153	
<b>814881</b>	SN74HC540N <b>R</b> <b>▲</b>	DIP-20	Octal buffers/line drivers w/ 3-st .....	.314	.296	
<b>814901</b>	SN74HC541N <b>R</b> <b>▲</b>	DIP-20	Octal buffers/line drivers w/ 3-st .....	.241	.227	
<b>814936</b>	SN74HC563DW <b>R</b> <b>▲</b>	SOIC-20	Octal transparent D-type latches w/ 3-st .... *	.459	.432	
<b>814961</b>	SN74HC573ADW <b>R</b> <b>▲</b>	SOIC-20	Octal transparent D-type latches w/ 3-st .. *	.246	.229	
<b>814995</b>	SN74HC573AN <b>R</b> <b>▲</b>	DIP-20	Octal transparent D-type latches w/ 3-st .... *	.278	.262	
<b>916334</b>	SN74HC590AD <b>R</b> <b>▲</b>	SOIC-16	8-bit binary counters w/ 3-st. outputs ... *	.332	.31	
<b>815023</b>	SN74HC590ADW <b>R</b> <b>▲</b>	SOIC-16	8-bit binary counters w/ 3-st. outputs .. *	.326	.307	
<b>815058</b>	SN74HC594D <b>R</b> <b>▲</b>	SOIC-16	8-bit shift registers w/ output registers .55	.483	.455	
<b>815074</b>	SN74HC594DW <b>R</b> <b>▲</b>	SOIC-16	8-bit shift registers w/ output registers .55	.483	.455	
<b>916351</b>	SN74HC594N <b>R</b> <b>▲</b>	DIP-16	8-bit shift registers w/ output registers .72	.61	.56	
<b>815103</b>	SN74HC595D <b>R</b> <b>▲</b>	SOIC-16	8-bit shift registers w/ 3-st. output registers .... *	.314	.296	
<b>815138</b>	SN74HC595N <b>R</b> <b>▲</b>	DIP-16	8-bit shift registers w/ 3-st. output registers .... *	.338	.318	
<b>916414</b>	SN74HC640N <b>R</b> <b>▲</b>	DIP-20	Octal bus transceivers w/ 3-st. outputs .....	.459	.432	
<b>815162</b>	SN74HC645DW <b>R</b> <b>▲</b>	SOIC-20	Octal bus transceivers w/ 3-st. outputs .. 1.05	.96	.91	
<b>815197</b>	SN74HC646DW <b>R</b> <b>▲</b>	SOIC-24	Octal bus transceivers w/ 3-st. outputs... 1.05	.96	.91	
<b>815226</b>	SN74HC652DW <b>R</b> <b>▲</b>	SOIC-24	Octal bus transceivers/registers w/ 3-st. outputs .. 1.29	1.20	1.13	
<b>815234</b>	SN74HC652NT <b>R</b> <b>▲</b>	DIP-24	Octal bus transceivers/registers w/ 3-st. outputs .. 1.29	1.20	1.13	
<b>815269</b>	SN74HC682DW <b>R</b> <b>▲</b>	SOIC-20	8-bit magnitude comparators .....	3.85	3.55	3.34
<b>815293</b>	SN74HC682N <b>R</b> <b>▲</b>	DIP-20	8-bit magnitude comparators .....	3.85	3.55	3.34
<b>916203</b>	SN74HC4020N <b>R</b> <b>▲</b>	DIP-16	14-bit asynchronous binary counters .... *	.326	.307	
<b>814821</b>	SN74HC4040N <b>R</b> <b>▲</b>	DIP-16	12-bit asynchronous binary counters .... *	.241	.227	
<b>916449</b>	SN74HC7001D <b>R</b> <b>▲</b>	SOIC-14	Quad positive AND gates w/ schmitt-trigger inputs 1.25	1.13	1.07	

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## 74HC Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
45161	74HC00N	DIP-14	Quad 2-input NAND gate	\$.27	\$.228	\$.168
380015	74HC00T	TSSOP-14	Quad 2-input NAND gate	*.125	\$.094	
45188	74HC02N	DIP-14	Quad 2-input NOR gate	.19	.143	.185
250974	SN74HC02N	DIP-14	Quad 2-input NOR gate (TI)	.29	.247	.185
380031	74HC02T	TSSOP-14	Quad 2-input NOR gate	*.125	\$.094	
45209	74HC04N	DIP-14	Hex Inverter	.29	.203	.159
250982	SN74HC04N	DIP-14	Hex Inverter (TI)	.29	.24	.21
45225	74HC08N	DIP-14	Quad 2-input AND gate	.19	.144	.267
380082	74HC08T	TSSOP-14	Quad 2-input AND gate	*.125	\$.094	
45233	74HC10N	DIP-14	Triple 3-input NAND gate	.39	.284	.215
45364	74HC14N	DIP-14	Hex Schmitt trigger inverter	.27	.228	.204
380277	74HC14T	TSSOP-14	Hex Schmitt trigger inverter	.36	.289	.217
45794	74HC32N	DIP-14	Quad 2-input OR gate	.29	.252	.18
380656	74HC32T	TSSOP-14	Quad 2-input OR gate	*.125	\$.094	
46130	74HC74N	DIP-14	Dual D-type pos. edge trig. F-F w/ clear & preset	.33	.30	.264
381114	74HC74T	TSSOP-14	Dual D-type pos. edge trig. F-F w/ clear & preset	*.149	\$.112	
46172	74HC85N	DIP-16	4-bit magnitude comparator	.23	.205	.154
46181	74HC86N	DIP-14	Quad 2-input Exclusive OR gate	*.171	.153	
381131	74HC86T	TSSOP-14	Quad 2-input Exclusive OR gate	*.141	\$.106	
45292	74HC123N	DIP-16	Dual retrigger. mono. multivibrator w/ reset	.36	.291	.218
45305	74HC125N	DIP-14	Quad bus buffer w/ 3-state outputs	.34	.288	.216
380120	74HC125T	TSSOP-14	Quad bus buffer w/ 3-state outputs	.20	.17	.128
45321	74HC132N	DIP-14	Quad pos. NAND gate w/ Schmitt trig. input	.28	.234	.18
45330	74HC138N	DIP-16	3-to-8 decoder/demultiplexer	.33	.275	.255
45356	74HC139N	DIP-16	2-to-4 decoder/demultiplexer	.20	.17	.14
45401	74HC154N	DIP-24	4-to-16 line decoder	.63	.54	.40
380293	74HC154T	TSSOP-24	4-to-16 line decoder (0.3"W)	.24	.191	.166
380314	74HC157T	TSSOP-16	Quad 2-to-1 line data selector/multiplexer	.24	.204	.153
45487	74HC164N	DIP-14	8-bit parallel out serial shift register	.28	.25	.188
45495	74HC165N	DIP-16	8-bit parallel load shift register	.32	.28	.25
380429	74HC165T	DIP-16	8-bit parallel load shift register	.30	.255	.191
45541	74HC192N	DIP-16	Presettable synch. 4-bit up/down counter	1.59	1.45	1.29
45559	74HC193N	DIP-16	4-bit synch up/down counter (dual clock w/ clear)	.30	.266	.20
45604	74HC221N	DIP-16	Dual monostable multivibrator w/ clear	.42	.365	.274
45612	74HC240N	DIP-20	Octal invert. buffer/line driver w/ 3-st. output	.34	.28	.21
380488	74HC240T	TSSOP-20	Octal invert. buffer/line driver w/ 3-st. output	.25	.213	.16
45655	74HC244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.45	.39	.35
380509	74HC244T	TSSOP-20	Octal buffer/line driver w/ 3-st. output	.25	.213	.16
45671	74HC245N	DIP-20	Octal bus trans. w/ 3-state output	.45	.38	.29
380592	74HC245T	TSSOP-20	Octal bus trans. w/ 3-state output	.25	.213	.16
380630	74HC273T	TSSOP-20	Octal D-type flip-flops with clear	.25	.213	.16
45831	74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O. (TI)	.45	.39	.35
251475	SN74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O. (TI)	.49	.42	.38
380699	74HC373T	TSSOP-20	Octal D-type transparent latches w/ 3-st. out H.O.	.25	.213	.16
45858	74HC374N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. output	.35	.298	.26
380744	74HC374T	TSSOP-20	Octal edge trig. D-type F-F w/ 3-st. output	.25	.213	.16
46050	74HC541N	DIP-20	Octal buffer/line driver w/ 3-st. output NOR gate enabled	.37	.31	.24
46076	74HC573N	DIP-20	Octal transparent D-type latches w/ 3-st. output	.38	.312	.264
197245	74HC573M	SOIC-20	Octal transparent D-type latches w/ 3-st. output	.21	.18	.169
381034	74HC573T	TSSOP-20	Octal transparent D-type latches w/ 3-st. output	.32	.269	.243
46084	74HC574N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. out. flow thru	.40	.324	.24
381051	74HC574T	TSSOP-20	Octal edge trig. D-type F-F w/ 3-st. out. flow thru	.26	.221	.166
251635	SN74HC590AN	DIP-16	8-bit binary counter w/ output reg. 3-st.	.50	.416	.365
46105	74HC595N	DIP-16	8-bit shift reg. w/ 3-st. output register	.62	.44	.39
251643	SN74HC595N	DIP-16	8-bit shift reg. w/ 3-st. output register (TI)	.65	.48	.36
46113	74HC688N	DIP-20	8-bit identity comparators	.44	.37	.278
45891	74HC4017N	DIP-16	Decade ctr/div w/ decoded output	.50	.46	.428
45920	74HC4040N	DIP-16	12-bit asynch binary counter	.25	.207	.155
380787	74HC4040T	TSSOP-16	12-bit asynch binary counter	.35	.298	.224
380859	74HC4050T	TSSOP-16	Hex buffers non-inverting	.39	.332	.249
88102	74HC4051N	DIP-16	8-channel analog multiplexer	.36	.282	.229
380875	74HC4051T	TSSOP-16	8-channel analog multiplexer	.39	.332	.249
272129	74HC4053N	DIP-16	Triple 2-channel analog multiplexer	.45	.374	.258
380912	74HC4053T	TSSOP-16	Triple 2-channel analog multiplexer	.39	.332	.249

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## 74HC Series (Continued)

\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
380939	74HC4060T	TSSOP-16	14-stage asynch binary counter/oscillator	\$.39	\$.332	\$.249
45971	74HC4066N	DIP-14	Quad bilateral analog switch	.31	.268	.201
380955	74HC4066T	TSSOP-14	Quad bilateral analog switch	.39	.332	.249
380971	74HC4316T	TSSOP-16	High speed quad analog switch w/ level translation	.39	.332	.249



## 74HCT Series

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\* Minimum order 5 pieces

Part No.	Cross Ref.	Pkg.	Description	1	5	50
815373	SN74HCT00D	SOIC-14	Quad 2-input positive NAND gates	*.135	\$.126	
815402	SN74HCT00N	DIP-14	Quad 2-input positive NAND gates	*.169	.159	
815437	SN74HCT04N	DIP-14	Hex inverters	*.157	.148	
815461	SN74HCT244DW	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs	*.209	.195	
815496	SN74HCT245N	DIP-20	Octal bus transceivers w/ 3-st. outputs	*.265	.25	
815525	SN74HCT257N	DIP-16	Quad 2-to-1 line data selector/multi. w/ 3-st. outputs	*.241	.227	
815550	SN74HCT373N	DIP-20	Octal transparent D-type latches w/ 3-st. outputs	*.29	.273	
815576	SN74HCT374N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	*.29	.273	
815592	SN74HCT574N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	*.314	.296	
815621	SN74HCT646NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	1.19	1.11	1.04
916801	SN74HCT652DW	SOIC-24	Octal bus trans./reg. w/ 3-st. outputs	1.19	1.08	1.02
916828	SN74HCT652NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	1.29	1.20	1.13

## 74HCT Series

\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44871	74HCT00N	DIP-14	Quad 2-input NAND gate	*.171	\$.128	
381157	74HCT00T	TSSOP-14	Quad 2-input NAND gate	*.125	.094	
44898	74HCT04N	DIP-14	Quad 2-input NOR gate	*.158	.118	
381173	74HCT04T	TSSOP-14	Quad 2-input NOR gate	*.125	.094	
44901	74HCT08N	DIP-14	Quad 2-input AND gate	.29	.223	.167
381190	74HCT08T	TSSOP-14	Quad 2-input AND gate	*.125	.094	
618046	74HCT10	DIP-14	Triple 3-input NAND gate	.38	.323	.242
618054	74HCT11N	DIP-14	Triple 3-input NAND gate	.44	.37	.264
44935	74HCT14N	DIP-14	Hex Schmitt trigger inverter	.28	.24	.18
381237	74HCT14T	TSSOP-14	Hex Schmitt trigger inverter	*.141	.118	
381333	74HCT32T	TSSOP-14	Quad 2-input OR gate	*.125	.094	
45137	74HCT74N	DIP-14	Dual D-type pos. edge trig F-F w/ clear & preset	.26	.224	.168
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer	.33	.282	.212
381211	74HCT138T	TSSOP-16	3-to-8 decoder/demultiplexer	.24	.204	.153
63773	74HCT139N	DIP-16	2-to-4 decoder/demultiplexer	.36	.32	.249
88057	74HCT154N	DIP-24	4-to-16 decoder/demultiplexer	.95	.81	.61
45022	74HCT244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.31	.28	.25
381270	74HCT244T	TSSOP-20	Octal buffer/line driver w/ 3-st. output	.25	.213	.16
45031	74HCT245N	DIP-20	Octal bus trans. w/ 3-state output	.34	.29	.22
381296	74HCT245T	TSSOP-20	Octal bus trans. w/ 3-state output	.25	.213	.16
45049	74HCT273N	DIP-20	Octal D-type flip-flop w/ clear	.35	.309	.232
381317	74HCT273T	TSSOP-20	Octal D-type flip-flop w/ clear	.25	.213	.16
45065	74HCT373N	DIP-20	Octal transparent D-type latch w/ 3-st. output	*.158	.12	
381376	74HCT374T	TSSOP-20	Octal D-type F-F edge trig. w/ 3-st. output	.25	.213	.16
381421	74HCT541T	TSSOP-20	Octal buffer/line driver w/ 3-st. NOR gate enabled	.26	.221	.166
45090	74HCT573N	DIP-20	Octal transparent D-type latch w/ 3-st. output	.40	.332	.227
381448	74HCT573T	TSSOP-20	Octal transparent D-type latch w/ 3-st. output	.29	.25	.188
45129	74HCT688N	DIP-20	8-bit magnitude comparator	.58	.43	.322



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










































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















## 74LS Series

Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
<b>815681</b>	SN74LS03N 	DIP-14	Quad 2-input pos. AND gates w/ open-collector	\$.65	\$.58	\$.546
<b>815701</b>	SN74LS04DG4 	SOIC-14	Hex inverters	★	Call	Call
<b>816042</b>	SN74LS26D 	SOIC-14	Quad 2-input high-voltage pos. NAND gates	.65	.58	.546
<b>816085</b>	SN74LS26NE4 	DIP-14	Quad 2-input high-voltage pos. NAND gates	.65	.58	.546
<b>816114</b>	SN74LS280N 	DIP-14	9-bit odd/even parity generators/checkers	.85	.77	.72
<b>816149</b>	SN74LS30N 	DIP-14	8-input positive NAND gates	*	.244	.226
<b>816173</b>	SN74LS31N 	DIP-16	Delay elements	.59	.55	.523
<b>816376</b>	SN74LS38D 	SOIC-14	Quad 2-input pos. NAND buffers w/ open-collector	.59	.531	.50
<b>917062</b>	SN74LS47D 	SOIC-16	BCD-to-Seven segment decoders/drivers	1.50	1.40	1.32
<b>816536</b>	SN74LS51N 	DIP-14	AND-OR invert gates	.75	.65	.61
<b>816721</b>	SN74LS73AD 	SOIC-14	Dual J-K flip-flops w/ clear	1.39	1.28	1.20
<b>815736</b>	SN74LS107AN 	DIP-14	Dual J-K flip-flops w/ clear	1.39	1.28	1.20
<b>815761</b>	SN74LS123DG4 	SOIC-16	Retriggerable mono multivibrators	★	Call	Call
<b>916975</b>	SN74LS132D 	SOIC-14	Quad 2-input pos. NAND schmitt trig	*	.459	.432
<b>815795</b>	SN74LS155AD 	SOIC-16	Dual 2-to-4 line decoders/demultiplexers	.99	.89	.84
<b>916991</b>	SN74LS155AN 	DIP-16	Dual 2-to-4 line decoders/demultiplexers	★	Call	Call
<b>917011</b>	SN74LS156D 	SOIC-16	Dual 2-to-4 line decoders/demultiplexers	.59	.531	.50
<b>815816</b>	SN74LS156N 	DIP-16	Dual 2-to-4 line decoders/demultiplexers	.59	.531	.50
<b>917038</b>	SN74LS158N 	DIP-16	Quad 2-to-1 line data selectors/multiplexers	*	.41	.387
<b>815841</b>	SN74LS163AD 	SOIC-16	Synchronous 4-bit counters	*	.41	.387
<b>815875</b>	SN74LS169BD 	SOIC-16	Synch 4-bit up/down binary counters	1.25	1.18	1.26
<b>815891</b>	SN74LS175D 	SOIC-16	Hex/quad D-type flip-flops w/ clear	.55	.483	.455
<b>815921</b>	SN74LS243N 	DIP-14	Quad bus transceivers	2.18	2.05	2.21
<b>815947</b>	SN74LS244WG4 	SOIC-20	Octal buffers & line drivers w/ 3-st	★	Call	Call
<b>815980</b>	SN74LS253D 	SOIC-16	Dual 4-to-1 line data selectors/multiplexers w/ 3-st	.65	.60	.56
<b>816018</b>	SN74LS258BNE4 	DIP-16	Quad 2-to-1 line data selectors/multiplexers	.75	.67	.63
<b>816202</b>	SN74LS348N 	DIP-16	8-to-3 line priority encoders w/ 3-st. outputs	3.65	3.49	3.32
<b>816237</b>	SN74LS367AD 	SOIC-16	Hex bus drivers w/ 3-st. outputs	.75	.70	.66
<b>816253</b>	SN74LS368AN 	DIP-16	Hex bus drivers w/ 3-st. outputs	.75	.70	.66
<b>816288</b>	SN74LS375N 	DIP-16	4-bit bistable latches	.75	.70	.66
<b>816317</b>	SN74LS377DW 	SOIC-20	Octal, Hex and Quad D-type F-F w/ enable	.99	.89	.84
<b>816341</b>	SN74LS378N 	DIP-16	Octal, Hex and Quad D-type F-F w/ enable	1.25	1.13	1.07
<b>816392</b>	SN74LS390D 	SOIC-16	Dual 4-bit decade & binary counters	1.22	1.15	1.24
<b>816421</b>	SN74LS390N 	DIP-16	Dual 4-bit decade & binary counters	1.09	1.01	.95
<b>816456</b>	SN74LS423D 	SOIC-16	Retriggerable mono multivibrators	2.03	1.92	2.06
<b>816481</b>	SN74LS423N 	DIP-16	Retriggerable mono multivibrators	1.69	1.53	1.45
<b>816510</b>	SN74LS465N 	DIP-20	Octal buffers w/ 3-st. outputs	5.66	5.33	5.73
<b>816561</b>	SN74LS624N 	DIP-14	Voltage controlled oscillators	2.99	2.75	2.59
<b>816595</b>	SN74LS640-1N 	DIP-20	Octal bus transceivers	★	Call	Call
<b>816624</b>	SN74LS641DW 	SOIC-20	Octal bus transceivers	2.39	2.22	2.09
<b>816641</b>	SN74LS652DW 	SOIC-24	Octal bus transceivers & registers	6.67	6.29	6.76
<b>816675</b>	SN74LS670N 	DIP-16	4-by-4 register files w/ 3-st. outputs	1.46	1.37	1.47
<b>816691</b>	SN74LS697N 	DIP-20	Synch. up/down cntnr w/ output reg./multi. 3-st	4.75	4.42	4.16


★ Please call or visit our website for minimum order quantity and pricing


## 74LS Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
46252	74LS00N 	DIP-14	Quad 2-input NAND gate	\$.41	\$.349	\$.24
283725	SN74LS00N 	DIP-14	Quad 2-input NAND gate (TI)	.45	.364	.276
46287	74LS02N 	DIP-14	Quad 2-input NOR gate	.45	.41	.34
283741	SN74LS02N 	DIP-14	Quad 2-input NOR gate (TI)	.48	.411	.284
46308	74LS03N 	DIP-14	Quad 2-input NAND gate (O.C.)	.50	.396	.30
46316	74LS04N 	DIP-14	Hex inverter	.41	.26	.23
283792	SN74LS04N 	DIP-14	Hex inverter (TI)	.45	.364	.276
46341	74LS05N 	DIP-14	Hex inverter (O.C.)	.41	.35	.265
46359	74LS06N 	DIP-14	Hex inverter buffer/driver (O.C.)	.74	.62	.50
46367	74LS07N 	DIP-14	Hex buffer/driver (O.C. hi-voltage)	.64	.57	.49
46375	74LS08N 	DIP-14	Quad 2-input AND gate	.37	.307	.23
295401	SN74LS08N 	DIP-14	Quad 2-input AND gate (TI)	.45	.364	.276
46391	74LS09N 	DIP-14	Quad 2-input AND gate (O.C.)	\$.62	.46	.349
46404	74LS10N 	DIP-14	Triple 3-input NAND gate	.46	.30	.276

\*10 pcs. in 74LS series IC cabinet kit, pg 20      \*20 pcs. in 74LS series IC cabinet kit, pg 20

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 74LS Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
295427	SN74LS10N	DIP-14	Triple 3-input NAND gate (TI)	\$.54	\$.46	\$.345
46439	74LS11N	DIP-14	Triple 3-input AND gate	.42	.312	.264
46640	74LS14N	DIP-14	Hex inverter Schmitt trigger	.40	.349	.265
295460	SN74LS14N	DIP-14	Hex inverter Schmitt trigger (TI)	.47	.399	.299
47095	74LS20N	DIP-14	Dual 4-input NAND gate	.31	.22	.20
47108	74LS21N	DIP-14	Dual 4-input AND gate	.32	.269	.202
47378	74LS27N	DIP-14	Triple 3-input NOR gate	.28	.23	.18
47458	74LS30N	DIP-14	8-input NAND gate	.28	.238	.179
47466	74LS32N	DIP-14	Quad 2-input OR gate	.35	.312	.246
295515	SN74LS32N	DIP-14	Quad 2-input OR gate (TI)	.38	.317	.238
295558	SN74LS37N	DIP-14	Quad 2-input NAND gate buffer (TI)	.59	.502	.377
295566	SN74LS38N	DIP-14	Quad 2-input NAND gate buffer (O.C.) TI	.39	.262	.196
47773	74LS42N	DIP-14	BCD-to-decimal decoder/driver	1.01	.86	.65
47790	74LS47N	DIP-16	BCD-to-7 segment decoder/driver (O.C.)	.94	.68	.59
295582	SN74LS47N	DIP-16	BCD-to-7 segment decoder/driver (O.C.) TI	.77	.58	.539
47811	74LS48N	DIP-16	BCD-to-7 segment decoder/driver	4.99	4.24	3.18
47992	74LS73N	DIP-14	Dual JK flip-flop w/ clear, center VCC/GND	1.03	.84	.64
48004	74LS74N	DIP-14	Dual D flip-flop	.36	.25	.22
295726	SN74LS74AN	DIP-14	Dual D flip-flop (TI)	.49	.378	.284
48021	74LS75N	DIP-16	4-bit bi-stable latch	.86	.73	.66
48039	74LS76N	DIP-16	Dual JK flip-flop with preset & clear	.83	.68	.61
48063	74LS83N	DIP-16	4-bit binary full adder	1.95	1.71	1.54
48071	74LS85N	DIP-16	4-bit magnitude comparator	.42	.382	.345
295742	SN74LS85N	DIP-16	4-bit magnitude comparator (TI)	.51	.461	.399
48098	74LS86N	DIP-14	Quad EXCLUSIVE-OR gate	.37	.30	.22
295751	SN74LS86N	DIP-14	Quad EXCLUSIVE-OR gate (TI)	.45	.357	.268
48119	74LS90N	DIP-14	Decade counter	.93	.81	.69
295769	SN74LS90N	DIP-14	Decade counter (TI)	1.45	1.19	1.09
48143	74LS92N	DIP-14	Divide-by-12 counter	1.09	.93	.69
48151	74LS93N	DIP-14	4-bit binary counter	.89	.79	.70
295822	SN74LS93N	DIP-14	4-bit binary counter (TI)	1.05	.89	.67
48178	74LS95N	DIP-14	4-bit parallel-access shift register	1.13	1.01	.87
46412	74LS107N	DIP-14	Dual JK flip-flop with clear	.87	.62	.432
46421	74LS109N	DIP-16	Dual JK pos. edge-trig. flip-flop	.73	.56	.42
46447	74LS112N	DIP-16	Dual JK neg. edge-trig. flip-flop	.39	.299	.227
46471	74LS122N	DIP-14	Retrig. mono. multivibrator comm. CLK	.56	.42	.324
46480	74LS123N	DIP-16	Dual mono. multivibrator with clear	.37	.319	.239
300880	SN74LS123N	DIP-16	Dual mono. multivibrator w/ clear (TI)	.50	.419	.315
46501	74LS125N	DIP-14	Quad bus buffer neg. enable tri-state	.36	.31	.233
46527	74LS126N	DIP-14	Quad bus buffer tri-state	.45	.414	.311
46551	74LS132N	DIP-14	Quad 2-input NAND Schmitt trigger	.39	.332	.249
46586	74LS136N	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	.64	.48	.36
46607	74LS138N	DIP-16	3-to-8 decoder/demultiplexer	.52	.423	.322
301233	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer (TI)	.62	.53	.40
46623	74LS139N	DIP-16	2-to-4 decoder/demultiplexer	.41	.32	.26
46666	74LS145N	DIP-16	BCD-to-decimal decoder/driver (O.C.)	.73	.55	.423
46682	74LS148N	DIP-16	8-to-3 priority encoder	.62	.519	.389
46703	74LS151N	DIP-16	8-input multiplexer	.45	.349	.269
46720	74LS153N	DIP-16	Dual 4-to-1 selector/multiplexer	.45	.357	.344
46738	74LS154N	DIP-24	4-to-16 line decoder/demultiplexer	5.15	4.59	3.69
46754	74LS155N	DIP-16	Dual 2/4 demultiplexer	.85	.72	.54
46771	74LS157N	DIP-16	Quad 2/1 data selector	.54	.423	.319
46800	74LS160N	DIP-16	Decade counter with asynch. clear	2.59	2.49	2.39
46818	74LS161N	DIP-16	Synch 4-bit counter	.50	.39	.293
46842	74LS163N	DIP-16	Fully synch. 4-bit counter	.46	.349	.265
46851	74LS164N	DIP-14	8-bit serial shift register	.52	.43	.315
46877	74LS165N	DIP-16	8-bit serial shift register, parallel load	.41	.391	.31
46885	74LS166N	DIP-16	8-bit shift register, parallel load	.66	.56	.42
46906	74LS169N	DIP-16	Synch. binary up/down counter	.61	.47	.35
46922	74LS173N	DIP-16	4-bit D-type reg. tri-state	1.03	.88	.66
46931	74LS174N	DIP-16	Hex D flip-flop with clear	.56	.359	.269

# 74LS & 74ALS Standard Logic



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## 74LS Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
46957	74LS175N	DIP-16	Quad D flip-flop with clear	\$ .33	\$ .387	\$ .291
46973	74LS181N	DIP-24	Arithmetic logic unit/function gen.	2.58	2.16	1.47
46990	74LS190N	DIP-16	Synchronous up/down counter	2.95	2.65	2.55
47001	74LS191N	DIP-16	Up/down binary counter	.58	.49	.37
47010	74LS192N	DIP-16	Decade up/down counter w/ clear	\$3.95 3.49	3.05	2.85
47036	74LS193N	DIP-16	Binary up/down counter w/ clear	.59	.49	.45
301831	SN74LS193N	DIP-16	Binary up/down counter w/ clear (TI)	.77	.66	.49
47052	74LS194N	DIP-16	4-bit bi-directional shift register	.81	.69	.55
301858	SN74LS194N	DIP-16	4-bit bi-directional shift register (TI)	.98	.83	.63
47061	74LS195N	DIP-16	4-bit parallel-access shift register	1.19	1.01	.76
47124	74LS221N	DIP-16	Dual monostable multivibrator	.36	.29	.28
47141	74LS240N	DIP-20	Octal invert. line driver tri-state	.46	.391	.293
47167	74LS241N	DIP-20	Octal bus/line driver tri-state	.39	.33	.248
47183	74LS244N	DIP-20	Octal driver tri-state	.53	.444	.336
308312	SN74LS244N	DIP-20	Octal driver tri-state (TI)	.48	.42	.315
47212	74LS245N	DIP-20	Octal bus transceiver tri-state	.64	.48	.416
308321	SN74LS245N	DIP-20	Octal bus transceiver tri-state (TI)	.63	.54	.405
47247	74LS247N	DIP-16	BCD to 7-segment decoder/driver (O.C.)	1.03	.88	.66
47298	74LS257N	DIP-16	Quad 2-input multiplexer	.31	.28	.209
47327	74LS259N	DIP-16	8-bit addressable latch	.46	.357	.328
47360	74LS266N	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	.69	.52	.395
47386	74LS273N	DIP-20	Octal D-type flip-flop with clear	.59	.471	.364
308398	SN74LS273N	DIP-20	Octal D-type flip-flop with clear (TI)	.70	.60	.444
47407	74LS279N	DIP-16	Quad set-reset latches	.50	.425	.319
47423	74LS283N	DIP-16	4-bit binary full add with fast carry	.53	.453	.35
47440	74LS299N	DIP-20	8-bit universal shift/storage register	1.02	.87	.64
47546	74LS365N	DIP-16	Hex buffer with logical OR tri-state	.86	.73	.55
47562	74LS367N	DIP-16	Hex buffer tri-state	.42	.357	.268
47600	74LS373N	DIP-20	Octal D flip-flop tri-state	.49	.43	.39
308460	SN74LS373N	DIP-20	Octal D flip-flop tri-state (TI)	.53	.47	.41
47634	74LS374N	DIP-20	Octal D flip-flop edge-trig. tri-state	.49	.43	.37
308478	SN74LS374N	DIP-20	Octal D flip-flop edge-trig. tri-state (TI)	.59	.501	.376
47669	74LS377N	DIP-20	Octal D register common enable	.43	.276	.207
47722	74LS390N	DIP-16	Dual 4-bit decade counter	.71	.61	.49
47731	74LS393N	DIP-14	Dual 4-bit binary counter	.59	.50	.38
308515	SN74LS40N	DIP-20	Octal invert. buffer/line driver tri-state (TI)	1.07	.93	.69
47861	74LS540N	DIP-20	Octal invert. buffer/line driver tri-state	.99	.76	.63
47870	74LS541N	DIP-20	Octal buffer/line driver tri-state	.67	.57	.46
64418	74LS573N	DIP-20	Octal D-type flip-flop latch tri-state	2.05	1.85	1.55
64426	74LS574N	DIP-20	Octal D-type flip-flop edge-trig. tri-state	2.15	1.89	1.69
47909	74LS590N	DIP-16	8-bit binary counter w/ reg. 3-state	4.55	4.06	3.01
103974	74LS595N	DIP-16	8-bit serial-to-parallel shift reg. 3-state	5.25	4.46	3.35
47950	74LS645N	DIP-20	Octal bus transceiver tri-state (O.C.)	1.30	1.11	.83
309260	74LS682N	DIP-20	8-bit magnitude comparator	1.26	1.07	.81
47984	74LS688N	DIP-20	8-bit magnitude comparator	1.45	1.18	.89

\*10 pcs. in 74LS series IC cabinet kit, below \*\*20 pcs. in 74LS series IC cabinet kit, below

## 74LS Series IC Kit

Includes:

20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 207 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961	420 pcs. 74LS IC kit	6.7	\$135.55	\$123.95
130391	Refill for 84961 (420 pcs.)	2.0	116.65	109.95

SAVE \$69



## 74ALS Series

For more TI 74ALS  
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Part No.	Cross Ref.	Pkg.	Description	1	5	50
832245	SN74ALS00A	DIP-14	Quad 2-input positive NAND gates	* .435	* \$ .435	* \$ .409
832261	SN74ALS02A	DIP-14	Quad 2-input positive NOR gates	* .435	* .409	
832296	SN74ALS02AN	DIP-14	Quad 2-input positive NOR gates	* .467	* .436	
832333	SN74ALS03B	DIP-14	Quad 2-input pos. NAND gates w/ open collector	* .442	* .413	
832368	SN74ALS05AN	DIP-14	Hex inverter w/ open collector outputs	* .467	* .436	
832392	SN74ALS09D	SOIC-14	Quad 2-input pos. AND gates w/ open collector	* .435	* .409	
832940	SN74ALS21AD	SOIC-14	Dual 4-input positive AND gates	.65	.58	.546
833150	SN74ALS30AD	SOIC-14	8-input positive NAND gates	* .435	* .409	
833184	SN74ALS37AN	DIP-14	Quad 2-input positive NAND buffers	2.85	2.61	2.45
833213	SN74ALS38BD	SOIC-14	Quad 2-input pos. NAND buffers w/ open collector	* .435	* .409	
833248	SN74ALS38BN	DIP-14	Quad 2-input pos. NAND buffers w/ open collector	* .492	* .459	
832544	SN74ALS109AN	DIP-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	.75	.67	.63
832579	SN74ALS112AD	SOIC-16	Dual J-K neg. edge-trig. F-F w/ clear & preset	.75	.67	.63
832608	SN74ALS133D	SOIC-16	13-input positive NAND gates	2.55	2.34	2.20
832641	SN74ALS133NE	DIP-16	13-input positive NAND gates	2.55	2.34	2.20
832675	SN74ALS151D	SOIC-16	1-of-8 data selector/multiplexers	.79	.72	.68
832704	SN74ALS157AD	SOIC-16	Quad 1-of-2 data selectors/multiplexers	.79	.72	.68
832755	SN74ALS157ANE	DIP-16	Quad 1-of-2 data selectors/multiplexers	.79	.72	.68
832780	SN74ALS163BD	SOIC-16	Synch. 4-bit decade/binary counter	.75	.70	.66
832819	SN74ALS164AD	SOIC-14	8-bit parallel-out serial shift register	1.45	1.30	1.22
913993	SN74ALS164AN	DIP-14	8-bit parallel-out serial shift register	1.45	1.30	1.22
832835	SN74ALS166D	SOIC-16	Parallel-load 8-bit shift register	3.69	3.43	3.23
832878	SN74ALS174D	SOIC-16	Hex/quad D-type flip-flops w/ clear	.65	.58	.546
832907	SN74ALS175D	SOIC-16	Hex/quad D-type flip-flops w/ clear	.65	.58	.546
832923	SN74ALS191AN	DIP-16	Synch. 4-bit up/down binary counters	1.89	1.76	1.66
832974	SN74ALS240ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	.85	.74	.70
833002	SN74ALS241CDW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	.85	.74	.70
833045	SN74ALS244C-1N	DIP-20	Octal buffers/drivers w/ 3-st. outputs	1.85	1.69	1.59
833125	SN74ALS299DW	SOIC-20	8-bit universal shift/storage reg. w/ 3-st. outputs	4.15	3.86	3.64
833272	SN74ALS575ANT	DIP-24	Octal D-type edge-trig. F-F w/ 3-st. outputs	6.45	5.99	5.64
833301	SN74ALS576BN	DIP-20	Octal D-type edge-trig. F-F w/ 3-st. outputs	1.05	.96	.91
833336	SN74ALS621AN	DIP-20	Octal bus transceivers	3.65	3.38	3.18
833352	SN74ALS640BN	DIP-20	Octal bus transceivers w/ 3-st. outputs	2.59	2.41	2.27
833379	SN74ALS641ADW	SOIC-20	Octal bus trans. w/ open-collector outputs	3.05	2.80	2.64
914030	SN74ALS642A-1DW	SOIC-20	Octal bus trans. w/ open-collector outputs	3.89	3.62	3.41
833416	SN74ALS642A-1N	DIP-20	Octal bus trans. w/ open-collector outputs	3.89	3.62	3.41
833432	SN74ALS645A-1DW	SOIC-20	Octal bus trans. w/ 3-st. outputs	3.39	3.14	2.96
833459	SN74ALS646ANT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	6.25	5.77	5.44
833483	SN74ALS652A-1NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	6.95	6.42	6.05
833512	SN74ALS652ADW	SOIC-24	Octal bus trans./reg. w/ 3-st. outputs	5.75	5.34	5.03
833547	SN74ALS652AN	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	5.75	5.34	5.03
914072	SN74ALS760N	DIP-20	Octal buffer/line drivers w/ open-collector outputs	3.09	2.85	2.68
833571	SN74ALS857NT	DIP-24	Hex 2-to-1 universal multiplexers w/ 3-st. outputs	6.65	6.13	5.78
833601	SN74ALS873BN	DIP-24	Dual 4-bit D-type latches w/ 3-st. outputs	4.29	3.98	3.75
833635	SN74ALS874BDW	SOIC-24	Dual 4-bit D-type edge-triggered F-F	3.15	2.92	2.75
833660	SN74ALS990DW	SOIC-20	8-bit D-type transparent read-back latch	7.25	6.71	6.32
833694	SN74ALS990N	DIP-20	8-bit D-type transparent read-back latch	7.25	6.71	6.32
833723	SN74ALS992NT	DIP-24	8-bit D-type transparent read-back latch w/ 3-st. outputs	13.65	12.68	11.95
832421	SN74ALS1005D	SOIC-14	Hex inverting buffers w/ open collector outputs	1.55	1.40	1.32
832456	SN74ALS1005N	DIP-14	Hex inverting buffers w/ open collector outputs	1.55	1.40	1.32
832481	SN74ALS1034D	SOIC-14	Hex drivers	1.89	1.76	1.66
913969	SN74ALS1035D	SOIC-14	Hex non-inverting buffers w/ open collector outputs	* Call	* Call	
832501	SN74ALS1035N	DIP-14	Hex non-inverting buffers w/ open collector outputs	1.55	1.40	1.32
833070	SN74ALS2982DW	SOIC-24	10-bit buffers & bus drivers w/ 3-st. outputs	6.05	5.58	5.25
833096	SN74ALS2982NT	DIP-24	10-bit buffers & bus drivers w/ 3-st. outputs	6.05	5.58	5.25

\* Please call or visit our website for minimum order quantity and pricing



## TTL Logic Data Book

Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)

• Size: 6.0" x 8.5" • Weight: 2.6 lbs.



Part No.	Description	1	10
88225	TTL Logic Data Book	\$34.95	\$31.49

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RoHS compliant product

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Details on page 1.

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74ALS Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
245323	74ALS11AN	DIP-14	Triple 3-input AND gates	.44	.374	.28
309614	74ALS138N	DIP-16	3 to 8 line decoder/demultiplexer	.46	.391	.293
310295	74ALS244AM	SOIC-20	Octal 3-state bus drivers	.39	.33	.249



74ABT Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
830223	SN74ABT125D4	SOIC-14	Quad bus buffer gates w/ 3-state	★	Call	Call
830240	SN74ABT125PW4	TSSOP-14	Quad bus buffer gates w/ 3-state	.68	.60	.517
830266	SN74ABT126N	DIP-14	Quad bus buffer gates w/ 3-state	.56	.424	.353
830282	SN74ABT126PW	TSSOP-14	Quad bus buffer gates w/ 3-state	.68	.60	.517
830303	SN74ABT16240DL	SSOP-48	16-bit bus driver/buffer w/ 3-state	1.16	.98	.78
830320	SN74ABT16543DL	SSOP-56	16-bit registered trans. w/ 3-state	1.42	1.18	1.03
830338	SN74ABT16601DL	SSOP-56	18-bit universal bus trans. w/ 3-state	5.29	4.99	4.68
830346	SN74ABT16623DL	SSOP-48	16-bit bus transceivers w/ 3-state	4.13	3.44	3.36
830362	SN74ABT16640DL	SSOP-48	16-bit bus transceivers w/ 3-state	5.49	5.16	4.83
830389	SN74ABT16821DL	SSOP-56	20-bit bus interface F-F w/ 3-state	3.18	2.65	2.59
830400	SN74ABT16823DL	SSOP-56	18-bit bus interface F-F w/ 3-state	2.22	1.73	1.44
911648	SN74ABT2245DW	SOIC-20	Octal trans./line/MOS drivers w/ 3-state	.77	.59	.485
830442	SN74ABT241ADW	SOIC-20	Octal bus driver/buffer w/ 3-state	.85	.64	.485
911710	SN74ABT244APW	TSSOP-20	Octal buffer/divider w/ 3-state	.46	.417	.382
830469	SN74ABT2458PW	TSSOP-20	Octal bus transceiver	.41	.378	.343
830514	SN74ABT273DWE4	SOIC-20	Octal edge trig. D-type F-F w/ clear	.77	.68	.59
830531	SN74ABT273N	DIP-20	Octal edge trig. D-type F-F w/ clear	.70	.53	.441
830557	SN74ABT374ADW	SOIC-20	Octal edge trig. D-type F-F w/ clear	.70	.53	.441
830573	SN74ABT574APW	TSSOP-20	Octal edge trig. D-type F-F with clear	.77	.68	.59
830590	SN74ABT620DW	SOIC-20	Octal bus transceiver w/ 3-state	1.31	1.10	.88
830611	SN74ABT623DW	SOIC-20	Octal bus transceiver w/ 3-state	1.31	1.10	.88
830637	SN74ABT640DW	SOIC-20	Octal bus transceiver w/ 3-state	1.31	1.10	.88
830653	SN74ABT640N	DIP-20	Octal bus transceiver w/ 3-state	1.31	1.10	.88
830670	SN74ABT652ANT	DIP-24	Octal registered trans. w/ 3-state	1.47	1.10	.91
830696	SN74ABT823DW	SOIC-24	9-bit bus interface F-F w/ 3-state	1.37	1.14	1.00
830717	SN74ABT843NTE4	DIP-24	9-bit bus interface F-F w/ 3-state	2.15	1.88	1.62
911787	SN74ABT16245DL	SSOP-48	16-bit switching bus trans. w/ 3-state	7.85	7.42	6.98
830741	SN74ABTH16244DL	SSOP-48	16-bit buffer/divider w/ 3-state	1.16	.97	.78

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4000 Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
12562	CD4001N	DIP-14	Quad 2-input NOR gates	.39	.30	.23
675964	CD4002N	DIP-14	Dual 4-input NOR gates	.41	.336	.179
12597	CD4007N	DIP-14	Dual comp. pair with inverter	.35	.30	.25
12634	CD4011N	DIP-14	Quad 2-input NAND gates	.35	.288	.228
675972	CD4012N	DIP-14	Dual 4-input NAND gates	.34	.295	.179
12677	CD4013N	DIP-14	Dual D flip-flops with set/reset	.41	.34	.25
197288	CD4013M	SOIC-14	Dual D flip-flops with set/reset	.28	.209	.133
675981	CD4014N	DIP-16	8-stage static shift register	.28	.265	.17
12706	CD4015N	DIP-16	Dual 4-stage static shift registers	.31	.249	.207
13565	CD4518N	DIP-16	Dual BCD up counters	.32	.30	.276
13581	CD4520N	DIP-16	Dual binary up counters	.34	.27	.21
13602	CD4526N	DIP-16	Divide-by-N counter (binary)	.52	.46	.395
676422	CD4527N	DIP-16	BCD rate multiplier	.40	.333	.226
13611	CD4528N	DIP-16	Dual monostable multivibrators	1.14	.98	.73
676431	CD4532N	DIP-16	8-bit priority encoder	.39	.299	.169
676449	CD4536N	DIP-16	CMOS Programmable timer	.59	.448	.254
13653	CD4538N	DIP-16	Dual precision monostable multivibrators	.44	.37	.302
13688	CD4541N	DIP-14	Oscillator/programmable timer	.36	.358	.29
676844	CD4541M	SOIC-14	Oscillator/programmable timer	.23	.183	.145
13696	CD4543N	DIP-16	BCD to 7-segment decoder (LCD)	.39	.30	.23
13709	CD4553N	DIP-16	3-digit BCD counter	2.95	2.66	2.39
354600	CD4555N	DIP-16	Dual 1-4 decoder/demultiplexers (H.O.)	.46	.391	.293
354618	CD4556N	DIP-16	Dual 1-4 decoder/demultiplexers (L.O.)	.46	.349	.26
13768	CD4584N	DIP-14	Hex Schmitt triggers	.39	.35	.29
676457	CD4724N	DIP-16	CMOS 8-bit addressable latch	.32	.298	.196
676465	CD14538N	DIP-16	CMOS dual precision monostable multivib.	.66	.498	.279

\*10 pcs. in 4000 series IC cabinet kit, pg 22

\*\*20 pcs. in 4000 series IC cabinet kit, pg 22

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4000 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
676473	CD40102N	DIP-16	8-st. preset. synch. down cntrs (2-decade BCD)	.79	.66	.408
676481	CD40103N	DIP-16	8-st. preset. synch. down cntrs (8-bit binary)	.47	.423	.33
44257	CD40106N	DIP-14	Hex inverters Schmitt trigger (74C14)	.49	.465	.42
676887	CD40106M	SOIC-14	CMOS Hex Schmitt trigger	.28	.241	.176
676490	CD40107N	DIP-8	Dual 2-input NAND buffer/divider	.45	.349	.265
354589	CD40109N	DIP-16	Quad L to H volt. level shifters	.56	.50	.375
676502	CD40110N	DIP-16	Decade up-down counter	1.23	1.00	.71
676511	CD40174N	DIP-16	HEX D-type flip flops	.43	.324	.244
676529	CD40192N	DIP-16	Presettable up/down counter	.54	.407	.215
676537	CD40193N	DIP-16	Presettable up/down counter	.59	.448	.34
12722	CD4016N	DIP-14	Quad bilateral switches	.28	.24	.18
676545	CD4016M	SOIC-14	Quad bilateral switches	.36	.293	.203
12749	CD4017N	DIP-16	Decade counter/divider	.39	.35	.32
197296	CD4017M	SOIC-16	Decade counter/divider	.36	.31	.233
12773	CD4018N	DIP-16	Presettable divide-by-N counter	.33	.279	.209
675999	CD4019N	DIP-16	Quad AND/OR select gates	.32	.293	.265
12802	CD4020N	DIP-16	14-stage binary/ripple counter	.39	.36	.33
12829	CD4021N	DIP-16	8-stage static shift register	.29	.25	.188
54666	CD4022N	DIP-16	Div. by 8-cnt. /driver w/ 8-decoded outputs	.32	.30	.27
12845	CD4023N	DIP-14	Triple 3-input NAND gates	.39	.33	.25
12853	CD4024N	DIP-14	7-stage binary counter	.39	.30	.23
676748	CD4024M	SOIC-14	7-stage binary counter	.20	.174	.16
676001	CD4025N	DIP-14	Triple 3-input NOR gates	.20	.18	.132
353560	CD4026N	DIP-16	Decade counter/divider	.62	.52	.45
12888	CD4027N	DIP-16	Dual JK master-slave flip-flops	.33	.264	.192
12909	CD4028N	DIP-16	BCD-to-decimal decoder	.40	.266	.244
12925	CD4029N	DIP-16	Presettable up/down counter	.33	.31	.25
676019	CD4030N	DIP-14	Quad exclusive OR gates	.21	.169	.128
12950	CD4040N	DIP-16	12-stage binary/ripple counter	.31	.29	.22
197333	CD4040M	SOIC-16	12-stage binary/ripple counter	.51	.43	.323
676027	CD4041N	DIP-14	Quad true/complement driver	.79	.60	.335
12984	CD4042N	DIP-16	Quad clocked D latches	.27	.232	.174
12992	CD4043N	DIP-16	Quad NOR R-S latches tri-state	.30	.249	.186
13004	CD4044N	DIP-16	Quad 3-state NAND R-S latches tri-state	.44	.38	.29
13055	CD4049N	DIP-16	Hex/buffer/converters (inverting)	.35	.288	.25
13071	CD4050N	DIP-16	Hex/buffer/converters (non-inverting)	.30	.244	.235
13098	CD4051N	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.31	.26	.195
676756	CD4052M	SOIC-16	4-ch analog multi./demultiplexer	.47	.379	.201
13127	CD4053N	DIP-16	Triple 2-channel multi./demultiplexers	.29	.24	.21
676801	CD4053M	SOIC-16	Triple 2-ch analog multi./demultiplexer	.37	.284	.162
676035	CD4054N	DIP-16	4-segment LCD driver	.33	.266	.183
676043	CD4059N	DIP-24	CMOS prog. divide-by-M counter	2.05	1.66	1.24
13151	CD4060N	DIP-16	14-stage ripple-carry binary	.41	.33	.25
676810	CD4060M	SOIC-16	14-stg. ripple-carry binary cnt./divider/oscillator	.42	.339	.18
676051	CD4063N	DIP-16	4-bit magnitude counter	.59	.448	.251
13186	CD4066N	DIP-14	Quad bilateral switches	.39	.30	.23
13215	CD4067N	DIP-24	16-channel analog multi./demultiplexer	1.02	.87	.65
676060	CD4068N	DIP-14	8-input NAND/AND gates	.25	.183	.121
13231	CD4069N	DIP-14	Hex inverters (74C04)	.38	.317	.238
13258	CD4070N	DIP-14	Quad exclusive-OR gates (74C86)	.35	.298	.224
13274	CD4071N	DIP-14	Quad 2-input OR gates	.39	.346	.28
676078	CD4072N	DIP-14	Dual 4-input OR gates	.42	.344	.154
676086	CD4073N	DIP-14	Triple 3-input AND gates	.40	.379	.196
676406	CD4073M	SOIC-14	Triple 3-input AND gates	.45	.365	.277
676094	CD4075N	DIP-14	Triple 3-input OR gates	.45	.365	.277
676107	CD4077N	DIP-14	Quad exclusive NOR gates	.39	.299	.227
676414	CD4077M	SOIC-14	Quad exclusive NOR gates	.26	.24	.154

\*10 pcs. in 4000 series IC cabinet kit, pg 22

\*\*20 pcs. in 4000 series IC cabinet kit, pg 22

Additional Texas Instruments 74ABT available at [www.Jameco.com](http://www.Jameco.com)

Thousands of additional ICs are now available on our website.

## 4000 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
676115	CD4078N	DIP-14	8-input NOR/OR gates	\$.45	\$.365	\$.277
13354	CD4081N	DIP-14	Quad 2-input AND gates	.34	.312	.28
676123	CD4082N	DIP-14	Dual 4-input AND gates	.42	.36	.215
676131	CD4085N	DIP-14	Dual 2-wide 2-input AND/OR inverter gates	.58	.397	.326
676140	CD4089N	DIP-16	Binary rate multiplier	.85	.71	.66
13400	CD4093N	DIP-14	Quad 2-input NANDs Schmitt trigger	.35	.30	.228
13426	CD4094N	DIP-16	8-stage shift-and-store bus register	.28	.26	.23
676158	CD4502N	DIP-16	Strobed hex inverter/buffer	*	.16	.13
676166	CD4504N	DIP-16	Hex voltage-level shifter	.54	.49	.374
13485	CD4510N	DIP-16	BCD up/down counter	.39	.30	.23
13493	CD4511N	DIP-16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
13514	CD4512N	DIP-16	8-channel data selector	.25	.23	.21
13522	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.94	.79	.64
13549	CD4516N	DIP-16	Binary up/down counter	.53	.398	.302

\*10 pcs. in 4000 series IC cabinet kit, below

## 4000 Series CMOS IC Kit

SAVE \$21

Includes:  
20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 207 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$95.65	\$90.85
130403	Refill for 84970	1.4	87.45	83.05

## ON Semiconductor® MC14000 Series

For more On Semi MC14000 visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
791754	MC14011BCPG	PDIP-14	Quad 2-input NAND gate	*	\$.213	\$.179
791771	MC14011BDG	SOIC-14	Quad 2-input NAND gate	.33	.301	.271
791842	MC14011UBD	SOIC-14	Quad 2-input NAND gate	*	.158	.146
791869	MC14012BCPG	PDIP-14	Dual 4-input NAND gate	*	Call	Call
868256	MC14015BCP	PDIP-16	Dual 4-bit static shift register	*	Call	Call
868272	MC14016BCP	PDIP-14	Quad analog switch/multiplexer	*	Call	Call
791914	MC14017BCPG	PDIP-16	Decade counter	*	Call	Call
868328	MC14017BD	SOIC-16	Decade counter	.43	.396	.355
868387	MC14020BCP	PDIP-16	14-bit binary counter	*	Call	Call
868441	MC14021BCP	PDIP-16	8-bit static shift register	*	Call	Call
791973	MC14023BDG	SOIC-14	Triple 3-input NAND gate	.28	.242	.198
792010	MC14025BCPG	PDIP-14	Triple 3-input NOR gate	*	Call	Call
868571	MC14027BCP	PDIP-16	Dual J-K flip-flop	*	Call	Call
792036	MC14028BCP	PDIP-16	BCD-to-Decimal/Binary-to-Octal decoder	*	Call	Call
792052	MC14029BCPG	PDIP-16	Binary / Decade up/down counter	*	Call	Call
792095	MC14040BCPG	PDIP-16	12-bit binary counter	*	Call	Call
792108	MC14042BCPG	PDIP-16	Quad transparent latch	*	Call	Call
868774	MC14043BD	SOIC-16	CMOS MSI quad R-S latches	.41	.378	.333
792124	MC14046BCPG	PDIP-16	Phase-locked loop	*	Call	Call
792141	MC14049BDG	SOIC-16	Hex inverter/buffer	.36	.327	.293
868942	MC14049UBCP	PDIP-16	Hex inverter/buffer	*	Call	Call
869021	MC14050BCP	PDIP-16	Non-inverting hex buffer	*	Call	Call
869101	MC14051BD	SOIC-16	8-ch multiplexer/demultiplexers	.45	.369	.333
869144	MC14052BCP	PDIP-16	Dual 4-ch analog multi/demultiplexer	*	Call	Call
869355	MC14066BCP	PDIP-14	Quad analog switch/Quad multiplexer	*	Call	Call
792167	MC14066BDG	SOIC-14	Quad analog switch/Quad multiplexer	.34	.281	.255
792183	MC14067BCPG	PDIP-14	16-ch analog multiplexer/demultiplexer	.89	.81	.68
792204	MC14067BDW	SOIC-14	16-ch analog multiplexer/demultiplexer	.78	.70	.63

\* Please call or visit our website for minimum order quantity and pricing



♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## ON Semiconductor® MC14000 (Cont.)

For more On Semi MC14000 visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
792221	MC14069UBCP	PDIP-14	Hex inverter	*	Call	Call
869494	MC14069UBDG	SOIC-14	Hex inverter	.18	.146	.121
869558	MC14070BCP	PDIP-14	CMOS SSI quad exclusive OR gate	*	Call	Call
792247	MC14070BCPG	PDIP-14	CMOS SSI quad exclusive OR gate	*	Call	Call
792263	MC14071BCPG	PDIP-14	Quad 2-input OR gate	*	Call	Call
869697	MC14073BCP	PDIP-14	Triple 3-input AND gate	*	Call	Call
869751	MC14077BD	SOIC-14	CMOS SSI quad exclusive NOR gate	.32	.297	.24
792301	MC14093BCPG	PDIP-14	Quad 2-input NAND schmitt trigger	*	Call	Call
869929	MC14094BCP	PDIP-16	8-stage shift store register w/ 3-st.	*	Call	Call
792360	MC14106BCPG	PDIP-14	Hex schmitt trigger	*	Call	Call
792423	MC14174BCPG	PDIP-16	Hex type D flip-flop	*	Call	Call
870137	MC14175BCP	PDIP-16	Quad type D flip-flop	*	Call	Call
792440	MC14489BPE	DIP-20	Multi-character LED display/lamp drv	3.69	3.40	3.10
792474	MC14511BCPG	PDIP-16	BCD-to-7 seg latch/decoder/driver	*	Call	Call
870276	MC14511BD	SOIC-16	BCD-to-7 seg latch/decoder/driver	.62	.461	.384
870292	MC14512BCP	PDIP-16	8-ch data selector	*	Call	Call
792511	MC14514BCP	PDIP-24	4-bit transparent latch/4-to-16 line dec	1.41	1.29	1.16
792538	MC14517BCP	PDIP-16	Dual 64-bit static shift register	*	Call	Call
870321	MC14518BCP	PDIP-16	Dual BCD up counter	*	Call	Call
870348	MC14520BCP	PDIP-16	Dual binary up counter	*	Call	Call
870364	MC14521BCP	PDIP-16	24-stage frequency counter	*	Call	Call
792554	MC14521BDG	SOIC-16	24-stage frequency counter	.41	.37	.333
870381	MC14526BCP	PDIP-16	Presetable 4-bit down counter	*	Call	Call
792571	MC14528BD	SOIC-16	Dual monostable multivibrator	.37	.332	.299
792597	MC14536BDWG	SOIC-16	Programmable timer*	.73	.67	.60
870495	MC14538BCPG	PDIP-16	Dual prec retrig/reset mono multi	.42	.377	.318
792618	MC14538BDWG	SOIC-16	Dual prec retrig/reset mono multi	.87	.75	.58
870591	MC14543BCP	PDIP-16	BCD-to-7 seg latch/dec./driver for LCD	*	Call	Call
792642	MC14551BCP	PDIP-16	Quad 2-ch analog multi/demultiplexer	*	Call	Call
870655	MC14555BCP	PDIP-16	Dual binary to 1-of-4 dec/demultiplexer	*	Call	Call
870671	MC14557BCP	PDIP-16	1-to-64 bit variable length shift register	*	Call	Call
870698	MC1455D	SOIC-8	Monolithic timing circuit	.25	.204	.178
792677	MC1455DGR	SOIC-8	Monolithic timing circuit	.52	.473	.424
870719	MC14569BCP	PDIP-16	Prog. divide-by-N dual 4-bit binary/BCD cnt	*	Call	Call
792714	MC14572UBCP	PDIP-16	Hex gate	*	Call	Call
792731	MC14572UBCPG	PDIP-16	Hex gate	*	Call	Call
870735	MC14584BCP	PDIP-14	Hex Schmitt trigger	*	Call	Call
792757	MC14584BCPG	PDIP-14	Hex Schmitt trigger	*	Call	Call
870778	MC14584BDG	SOIC-14	Hex Schmitt trigger	.25	.223	.188
870794	MC14584BDR2	SOIC-14	Hex Schmitt trigger	*	Call	Call
870815	MC14585BCP	PDIP-16	4-bit magnitude comparator	*	Call	Call
792773	MC14585BCPG	PDIP-16	4-bit magnitude comparator	*	Call	Call

\* with 24-stage binary ripple counter w/ 16-stages selectable by binary code

\* Please call or visit our website for minimum order quantity and pricing

## 7400 Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979	7400N	DIP-14	Quad 2-input NAND gates	\$.97	\$.82	\$.66
49007	7401N	DIP-14	Quad 2-input NAND gates (O.C.)	.65	.63	.59
49015	7402N	DIP-14	Quad 2-input NOR gates	.90	.75	.60
49040	7404N	DIP-14	Hex inverters	1.09	.89	.80
49074	7405N	DIP-14	Hex inverters (O.C.)	.69	.54	.405
49091	7406N	DIP-14	Hex inverter buffer/drivers (O.C.)	.59	.52	.46
49120	7407N	DIP-14	Hex buffer/drivers (O.C.)	.59	.53	.47
49146	7408N	DIP-14	Quad 2-input AND gates	1.28	1.15	1.02
49189	7410N	DIP-14	Triple 3-input NAND gates	.53	.48	.348
295777	7411N	DIP-16	Triple 3-input AND gates	1.19	1.08	.97
49402	7413N	DIP-14	Dual 4-input NAND gates Schmitt trigger	1.25	1.12	1.01
49437	7414N	DIP-14	Hex inverters Schmitt trigger	.71	.64	.58
49630	7416N	DIP-14	Hex inverter buffer/drivers (O.C.)	.57	.48	.36

\*10 pcs./\*\*20 pcs. in 7400 series IC cabinet kit, pg 23

Thousands of additional ICs are now available on our website.

## 7400 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
49728	7417N*	DIP-14	Hex buffer/drivers (O.C. hi-voltage) .....	<b>\$.91</b>	<b>\$.77</b>	<b>\$.58</b>
50008	7420N*	DIP-14	Dual 4-input NAND gates .....	.63	.61	.58
50139	7427N	DIP-14	Triple 3-input NOR gates .....	<b>.68</b>	<b>.58</b>	<b>.435</b>
50227	7430N*	DIP-14	8-input NAND gate .....	<b>.62</b>	<b>.58</b>	<b>.435</b>
50235	7432N*	DIP-14	Quad 2-input OR gates .....	.98	.84	.66
50315	7438N*	DIP-14	Quad 2-input NAND buffers (O.C.) .....	<b>.72</b>	<b>.62</b>	<b>.56</b>
50374	7442N	DIP-16	BCD-to-decimal decoder .....	1.67	1.42	1.07
50403	7445N	DIP-16	BCD-to-decimal decoder/driver .....	<b>1.49</b>	<b>1.24</b>	<b>.93</b>
50420	7447N*	DIP-16	BCD-to-7 segment decoder/driver (L.O.) ..	1.49	1.29	.99
50526	7472N	DIP-14	AND gated JK master/slave flip-flop .....	<b>1.95</b>	<b>1.67</b>	<b>1.25</b>
50534	7473N	DIP-14	Dual JK flip-flops with clear .....	1.33	1.13	.84
50551	7474N**	DIP-14	Dual D flip-flops .....	.65	.56	.53
50577	7475N	DIP-16	4-bit bi-stable latch .....	2.95	2.75	2.49
50593	7476N	DIP-16	Dual JK flip-flops with preset and clear ....	2.95	2.65	2.39
50631	7483N	DIP-16	4-bit binary full adder .....	1.86	1.62	1.32
50657	7485N*	DIP-16	4-bit magnitude comparator .....	1.43	1.16	.84
50665	7486N	DIP-14	Quad exclusive-OR gates .....	1.75	1.59	1.45
50681	7489N	DIP-16	64-bit RAM P 50ns .....	3.85	3.50	3.28
50690	7490N	DIP-14	Decade counter .....	1.49	1.27	.95
50737	7492N	DIP-14	Divide-by-12 counter .....	1.49	1.29	1.07
50745	7493N	DIP-14	4-bit binary counter .....	1.49	1.34	1.19
50770	7495N*	DIP-14	4-bit parallel-access shift reg. (K155N) ....	1.19	1.04	.69
50796	7497N	DIP-16	Synch. 6-bit binary rate multipliers .....	3.05	2.62	1.93
49234	74107N*	DIP-14	Dual JK flip-flop with clear .....	<b>.57</b>	<b>.484</b>	<b>.363</b>
49322	74121N	DIP-14	Monostable multivibrator .....	1.25	1.15	1.00
49357	74123N*	DIP-16	Dual retriggerable mono multivibrator .....	1.19	1.14	1.09
49373	74125N	DIP-14	Quad bus buffer tri-state (DM8093N) .....	1.39	1.32	1.25
49411	74132N*	DIP-14	Quad 2-input NAND Schmitt trigger .....	<b>1.09</b>	<b>.93</b>	<b>.79</b>
49496	74148N	DIP-16	8 to 3 line octal priority encoder .....	<b>1.24</b>	<b>1.05</b>	<b>.79</b>
49509	74150N	DIP-24	16 to 1 line multiplexer .....	2.87	2.54	2.34
49525	74151N*	DIP-16	8-input multiplexer .....	<b>.75</b>	<b>.63</b>	<b>.472</b>
49550	74153N*	DIP-16	Dual 4/1 data selector/multiplexer .....	1.01	.86	.65
49568	74154N	DIP-24	4 to 16 line decoder/demultiplexer .....	2.70	2.34	2.10
49605	74157N*	DIP-16	Quad 2/1 data selector .....	.99	.86	.65
49648	74160N*	DIP-16	Decade counter with asynch clear .....	.52	.46	.41
49664	74161N	DIP-16	Synchronous 4-bit counter w/ direct clear ...	.77	.69	.55
49672	74163N	DIP-16	Fully synchronous 4-bit counter .....	<b>.89</b>	<b>.76</b>	<b>.57</b>
49681	74164N	DIP-14	8-bit serial shift register .....	.94	.79	.59
49779	74174N*	DIP-16	Hex D-type flip-flop with clear .....	<b>1.09</b>	<b>.92</b>	<b>.69</b>
49795	74175N*	DIP-16	Quad D-type flip-flop with clear .....	<b>.94</b>	<b>.80</b>	<b>.60</b>
49832	74180N	DIP-14	9-bit odd/even parity generator/checker ...	<b>2.89</b>	<b>2.46</b>	<b>1.84</b>
49841	74181N	DIP-24	Arithmetic logic unit/function generator ...	3.65	3.32	2.99
49883	74189N	DIP-16	64-bit RAM tri-state (DM8599N) .....	<b>3.39</b>	<b>2.89</b>	<b>2.17</b>
49904	74191N	DIP-16	Binary up/down counter .....	<b>2.05</b>	<b>1.73</b>	<b>1.30</b>
49912	74192N	DIP-16	Decade up/down counter with clear .....	3.69	3.39	3.19
49939	74193N	DIP-16	Binary up/down counter with clear .....	2.39	2.10	1.92
49955	74194N	DIP-16	4-bit bi-directional shift register .....	<b>1.75</b>	<b>1.49</b>	<b>1.11</b>
49963	74195N	DIP-16	4-bit parallel-access shift register .....	<b>1.65</b>	<b>1.40</b>	<b>1.05</b>
50171	74279N*	DIP-16	Quad set-reset latch .....	1.85	1.81	1.78



\*10 pcs. in 7400 series IC cabinet kit, below \*\*20 pcs. in 7400 series IC cabinet kit, below

## 7400 Series IC Kit

**Includes:**  
 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 207 and 30 adhesive labels for drawers to identify parts in kit  
**10 each:** 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279  
**20 each:** 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953	350 pcs. 7400 IC kit	6.2	<b>\$179.94</b>	<b>\$161.94</b>

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

## 74C Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222	74C00N	DIP-14	Quad 2-input NAND gate .....	<b>\$1.15</b>	<b>\$.91</b>	<b>\$.68</b>
44231	74C04N	DIP-14	Hex inverter (CD4069) .....	<b>1.12</b>	<b>.91</b>	<b>.68</b>
44257	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106) ....	.49	.465	.42
44441	74C74N	DIP-14	Dual D flip-flop .....	<b>\$2.25</b>	<b>1.89</b>	<b>1.53</b>
44361	74C221N	DIP-16	Dual monostable multivibrator .....	<b>3.99</b>	<b>3.25</b>	<b>2.43</b>
44396	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state ...	<b>4.62</b>	<b>3.74</b>	<b>2.93</b>
44409	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N) ....	<b>2.49</b>	<b>2.13</b>	<b>1.59</b>
44564	74C922N	DIP-18	16-key keyboard encoder (INS8245N) .....	7.05	6.79	6.19
44572	74C923N	DIP-20	20-key keyboard encoder (INS8246N) .....	7.43	6.32	5.33
44581	74C925N	DIP-16	4-digit CTR w/ MUX D segment driver ....	<b>18.71</b>	<b>15.90</b>	<b>11.94</b>
44599	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver .....	<b>12.59</b>	<b>10.71</b>	<b>9.10</b>

## 74F Series

For more TI 74F visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	5	50
<b>834902</b>	SN74F00N	DIP-14	Quad 2-input positive NAND gates .....	* <b>\$.221</b>	<b>\$.206</b>	
<b>834911</b>	SN74F02N	DIP-14	Quad 2-input positive NOR gates .....	* <b>Call</b>	<b>Call</b>	
<b>834929</b>	SN74F08D	SOIC-14	Quad 2-input positive AND gates .....	* <b>.196</b>	<b>.183</b>	
<b>834937</b>	SN74F08N	DIP-14	Quad 2-input positive AND gates .....	* <b>Call</b>	<b>Call</b>	
<b>834953</b>	SN74F10D	SOIC-14	Triple 3-input positive NAND gates .....	* <b>Call</b>	<b>Call</b>	
<b>834961</b>	SN74F10N	DIP-14	Triple 3-input positive NAND gates .....	* <b>.221</b>	<b>.206</b>	
<b>834988</b>	SN74F11D	SOIC-14	Triple 3-input positive AND gates .....	* <b>.221</b>	<b>.206</b>	
<b>835067</b>	SN74F20N	DIP-14	Dual 4-input positive NAND gates .....	* <b>Call</b>	<b>Call</b>	
<b>835075</b>	SN74F21D	DIP-14	Dual 4-input positive AND gates .....	* <b>.295</b>	<b>.275</b>	
<b>835112</b>	SN74F27D	SOIC-14	Triple 3-input positive NOR gates .....	* <b>.221</b>	<b>.206</b>	
<b>835139</b>	SN74F30D	SOIC-14	8-input positive NAND gates .....	* <b>.196</b>	<b>.183</b>	
<b>834945</b>	SN74F109D	SOIC-16	Dual J-K pos. edge-trig. F-F w/ clear & preset ...	* <b>.221</b>	<b>.206</b>	
<b>834970</b>	SN74F112D	SOIC-16	Dual neg. edge-trig. J-K F-F w/ clear & preset ...	* <b>.368</b>	<b>.344</b>	
<b>834996</b>	SN74F126D	SOIC-14	Quad bus buffer gate w/ 3-st. outputs .....	* <b>.221</b>	<b>.206</b>	
<b>835008</b>	SN74F153N	DIP-16	Dual 1-of-4 data selectors/multiplexers .....	* <b>.27</b>	<b>.252</b>	
<b>835016</b>	SN74F157AN	DIP-16	Quad 2-to-1 line data selectors/multiplexers ..	* <b>.246</b>	<b>.229</b>	
<b>835024</b>	SN74F163AD	SOIC-16	Synchronous 4-bit binary counter .....	* <b>.246</b>	<b>.229</b>	
<b>835032</b>	SN74F174AD	SOIC-16	Hex D-type flip-flop w/ clear .....	* <b>.39</b>	<b>.359</b>	<b>.45</b>
<b>835041</b>	SN74F175D	SOIC-16	Quad D-type flip-flop w/ clear .....	* <b>.246</b>	<b>.229</b>	
<b>835059</b>	SN74F175N	DIP-16	Quad D-type flip-flop w/ clear .....	* <b>.246</b>	<b>.229</b>	
<b>835083</b>	SN74F240DW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs .....	* <b>.332</b>	<b>.31</b>	
<b>835091</b>	SN74F240N	DIP-20	Octal buffers/drivers w/ 3-st. outputs .....	* <b>.405</b>	<b>.378</b>	
<b>835104</b>	SN74F257D	DIP-16	Quad 2-to-1 line data selectors/multi. w/ 3-st ...	* <b>.246</b>	<b>.229</b>	
<b>835121</b>	SN74F280BD	DIP-14	9-bit parity generators/checkers .....	* <b>.381</b>	<b>.356</b>	
<b>835147</b>	SN74F541DW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs .....	* <b>Call</b>	<b>Call</b>	
<b>835155</b>	SN74F543NT	DIP-24	Octal registered trans.w/ 3-st. output .....	* <b>Call</b>	<b>Call</b>	
<b>835163</b>	SN74F573DW	DIP-20	Octal transparent D-type latches w/ 3-st .....	* <b>Call</b>	<b>Call</b>	

★ Please call or visit our website for minimum order quantity and pricing

## 74S Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
676959	74S00N	DIP-14	Quad 2-input NAND gates .....	<b>\$.70</b>	<b>\$.59</b>	<b>\$.36</b>
676967	74S04N	DIP-14	Hex Inverter .....	.70	.59	.361
676975	74S10N	DIP-14	Triple 3-input NAND gates .....	.75	.64	.39
676983	74S38N	DIP-14	Quad 2-input NAND buffer w/ open collector ...	<b>1.06</b>	<b>.97</b>	<b>.74</b>
676991	74S74N	DIP-14	Dual positive edge-triggered D-type flip-flop ...	.81	.69	.417
677003	74S138N	DIP-16	3-8 line decoder/demultiplexer .....	1.09	.99	.81
48557	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03) .....	3.99	3.90	3.86
<b>677011</b>	74S240N	DIP-20	Octal 3-state buffer/line driver/line receiver ..	<b>1.85</b>	<b>1.51</b>	<b>1.16</b>
<b>677020</b>	74S244N	DIP-20	Octal 3-state buffer/line driver/line receiver ...	<b>1.85</b>	<b>1.51</b>	<b>1.19</b>
48696	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10) ..	<b>14.34</b>	<b>12.90</b>	<b>11.63</b>
48717	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N) ..	<b>8.15</b>	<b>7.03</b>	<b>6.04</b>
48805	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N) ...	3.09	2.95	2.80
52513	74S428N	DIP-28	System contr./bus driver (8228) .....	<b>3.69</b>	<b>3.19</b>	<b>2.36</b>
48864	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N) ..	<b>12.95</b>	<b>11.65</b>	<b>10.49</b>

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# Tiny Logic, 74LV/LVT/LVTH & 74LVX/LVXC Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
787384	NC7S00M5	SOT-23/5	Single 2-input NAND gate	★	Call	Call
873645	NC7S04M5	SOT-23/5	Single inverter	★	Call	Call
873688	NC7S08M5	SOT-23/5	Single 2-input AND gate	★	Call	Call
873741	NC7S14M5	SOT-23/5	Schmitt input inverter	★	Call	Call
787405	NC7S14P5	SC70/5	Schmitt input inverter	★	Call	Call
787413	NC7S104M5	SOT-23/5	Single inverter w/ TTL comp. inputs	★	Call	Call
787421	NC7S132P5	SC70/5	Single 2-input OR gate w/ TTL comp. inputs	★	Call	Call
873856	NC7S200M5	SOT-23/5	Single 2-input AND gate	★	Call	Call
787430	NC7S200P5	SC70/5	Single 2-input AND gate	★	Call	Call
873944	NC7S204M5	SOT-23/5	Single inverter	★	Call	Call
787456	NC7S206P5	SC70/5	Single inverter (open drain output)	★	Call	Call
874007	NC7S208M5	SOT-23/5	Single 2-input AND gate	★	Call	Call
874066	NC7S208P5	SC70/5	Single 2-input AND gate	★	Call	Call
874251	NC7S214M5	SOT-23/5	Single inverter w/ Schmitt trigger input	★	Call	Call
874322	NC7S214P5	SC70/5	Single inverter w/ Schmitt trigger input	★	Call	Call
874402	NC7S232M5	SOT-23/5	Single 2-input OR gate	★	Call	Call
874111	NC7S2125M5	SOT-23/5	Buffer w/ 3-st. output	★	Call	Call
874171	NC7S2125P5	SC70/5	Single buffer w/ 3-st. output	★	Call	Call
874218	NC7S2126M5	SOT-23/5	Single buffer w/ 3-st. output	★	Call	Call
787464	NC7S2126P5	SC70/5	Single buffer w/ 3-st. output	★	Call	Call
874509	NC7W204P6	SC70/6	Dual inverter	★	Call	Call
787472	NC7W207P6	SC70/6	Dual buffer w/ open drain outputs	★	Call	Call
787481	NC7W214P6	SC70/6	Dual inverter w/ Schmitt trigger inputs	★	Call	Call
874613	NC7W216P6	SC70/6	Dual buffer	★	Call	Call

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## TEXAS INSTRUMENTS 74LV Series

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
816755	SN74LV00AD	SOIC-14	Quad 2-input positive NAND gates	★	\$ .147	\$ .137
816780	SN74LV02APW	TSSOP-14	Quad 2-input positive NOR gates	★	.362	.341
917097	SN74LV04AD	SOIC-14	Hex inverters	★	.147	.137
816819	SN74LV04APW	TSSOP-14	Hex inverters	★	.172	.16
816827	SN74LV05AD	SOIC-14	Hex inverters w/ open-drain outputs	★	.144	.136
816851	SN74LV05ADE4	SOIC-14	Hex inverters w/ open-drain outputs	★	.144	.136
816886	SN74LV06AD	SOIC-14	Hex inverter buffers/drivers w/ open-drain	★	.362	.341
816915	SN74LV06ADE4	SOIC-14	Hex inverter buffers/drivers w/ open-drain	★	.362	.341
917151	SN74LV07AD	SOIC-14	Hex buffers/drivers w/ open drain outputs	★	.362	.341
917177	SN74LV08AD	SOIC-14	Quad 2-input positive AND gates	★	.147	.137
816958	SN74LV08ADE4	SOIC-14	Quad 2-input positive AND gates	★	.147	.137
917231	SN74LV14AD	SOIC-14	Hex schmitt trigger inverters	★	.172	.16
817117	SN74LV14APW	TSSOP-14	Hex schmitt trigger inverters	★	.172	.16
817221	SN74LV21APW	TSSOP-14	Dual 4-input positive AND gates	★	.55	.483
817379	SN74LV32AD	SOIC-14	Quad 2-input positive OR gates	★	.172	.16
817408	SN74LV32APW	TSSOP-14	Quad 2-input positive OR gates	★	Call	Call
817791	SN74LV86AD	SOIC-14	Quad 2-input exclusive OR gates	★	.246	.229
917185	SN74LV125AD	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	★	.196	.183
816982	SN74LV125ATD	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	★	.295	.275
817011	SN74LV125ATPW	TSSOP-14	Quad bus buffer gates w/ 3-st. outputs	★	.295	.275
817037	SN74LV132AD	SOIC-14	Quad pos. NAND gates w/ schmitt trig	★	.221	.206
917214	SN74LV138AD	SOIC-16	3-to-8 line decoder/demultiplexer	★	.246	.229
817061	SN74LV138ATD	SOIC-16	3-to-8 line decoder/demultiplexer	★	.29	.273
817088	SN74LV138ATPW	TSSOP-16	3-to-8 line decoder/demultiplexer	★	.29	.273
817141	SN74LV165AD	SOIC-16	Parallel-load 8-bit shift registers	★	.435	.409
817176	SN74LV166AD	SOIC-16	8-bit parallel-load shift registers	★	.79	.72
817205	SN74LV175AD	SOIC-16	Quad D-type flip-flops w/ clear	★	.59	.531
817256	SN74LV240ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	★	.386	.364
917329	SN74LV244ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	★	.27	.252
817281	SN74LV244ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	★	.265	.25
917353	SN74LV245ADW	SOIC-20	Octal bus transceivers w/ 3-st. outputs	★	.386	.364
817310	SN74LV245APW	TSSOP-20	Octal bus transceivers w/ 3-st. outputs	★	.386	.364
817344	SN74LV273ADW	SOIC-20	Octal D-type flip-flops w/ clear	★	.29	.273
817432	SN74LV373ADW	SOIC-20	Octal transparent D-type latches w/ 3-st	★	.386	.364
817467	SN74LV373ATD	SOIC-20	Octal transparent D-type latches w/ 3-st	★	.314	.296

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RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## TEXAS INSTRUMENTS 74LV Series (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
817491	SN74LV373ATPW	TSSOP-20	Octal transparent D-type latches w/ 3-st	★	\$ .338	\$ .318
817660	SN74LV541ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	★	.69	.62
817694	SN74LV573APW	TSSOP-20	Octal transparent D-type latches w/ 3-st	★	Call	Call
817715	SN74LV574ADW	SOIC-20	Octal edge-trig. D-type flip-flops w/ 3-st	★	.386	.364
817740	SN74LV594AD	SOIC-16	8-bit shift registers w/ output registers	★	.69	.62
917388	SN74LV595AD	SOIC-16	8-bit shift registers w/ 3-st. output registers	★	.65	.58
817521	SN74LV4051AD	SOIC-16	8-ch analog multiplexer/demultiplexer	★	.65	.60
817547	SN74LV4051APW	TSSOP-16	8-ch analog multiplexer/demultiplexer	★	.65	.60
817571	SN74LV4052AD	SOIC-16	Dual 4-channel analog MUX/DEMUX	★	.338	.318
817601	SN74LV4053APW	TSSOP-16	Triple 2-channel analog MUX/DEMUX	★	.65	.60
817635	SN74LV4066AD	SOIC-14	Quad bilateral analog switches	★	.65	.60
817766	SN74LV8153PW	TSSOP-20	Serial to parallel interface	★	1.45	1.32

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## TEXAS INSTRUMENTS 74LVT Series

For more TI 74LVT visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
757724	SN74LVT125D	SOIC-14	3.3V ABT quad bus buffer w/ 3-st.	★	Call	Call
819585	SN74LVT240ADW	SOIC-20	3.3V ABT octal buffer/driver w/ 3-st.	★	.78	.66
819614	SN74LVT240BPW	TSSOP-20	3.3V ABT octal buffer/driver w/ 3-st.	★	.53	.485
819526	SN74LVT1624BDL	SSOP-48	3.3V ABT 16-bit buffers/drivers w/ 3-st.	★	1.42	1.06
819551	SN74LVT16245BDL	SSOP-48	3.3V ABT 16-bit bus trans. w/ 3-st.	★	1.42	1.06

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## TEXAS INSTRUMENTS 74LVTH Series

For more TI 74LVTH visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
757847	SN74LVTH125D	SOIC-14	3.3V ABT quad bus buffer w/ 3-st.	★	Call	Call
819770	SN74LVTH240DW	SOIC-20	3.3V ABT octal buffers/drivers w/ 3-st.	★	.77	.59
819796	SN74LVTH241DW	SOIC-20	3.3V ABT octal buffers/drivers w/ 3-st.	★	.77	.59
757943	SN74LVTH244PW	TSSOP-20	3.3V ABT octal buffers/drivers w/ 3-st.	★	.70	.53
758022	SN74LVTH273DW	SOIC-20	3.3V ABT octal D-type F-F w/ clear	★	.70	.518
819825	SN74LVTH273PW	TSSOP-20	3.3V ABT octal D-type F-F w/ clear	★	.70	.53
819850	SN74LVTH374DW	SOIC-20	3.3V ABT octal edge-trig D-type F-F w/ 3-st.	★	.70	.53
819921	SN74LVTH541PW	TSSOP-20	3.3V ABT octal bus buffers/drivers w/ 3-st.	★	1.35	1.14
758049	SN74LVTH573DW	SOIC-20	3.3V ABT octal transparent D-type latches w/ 3-st.	★	.70	.53
819631	SN74LVTH16373D	SOIC-48	3.3V ABT 16-bit transparent D-type latches w/ 3-st.	★	1.16	.98
819657	SN74LVTH16501DL	SSOP-56	3.3V ABT 18-bit universal bus trans w/ 3-st.	★	1.65	1.23
819681	SN74LVTH16541DL	SSOP-48	3.3V ABT 16-bit buffers/drivers w/ 3-st.	★	1.65	1.37
819711	SN74LVTH245DW	SOIC-20	3.3V ABT octal bus transceivers w/ 3-st.	★	.70	.53
819745	SN74LVTH245PW	TSSOP-20	3.3V ABT octal bus transceivers w/ 3-st.	★	.70	.518

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## 74LVX/74LVXC (3.3V)

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
784378	74LVX00MTC	TSSOP-14	Quad 2-input AND gate	★	\$ .151	\$ .121
784394	74LVX132M	SOIC-14	Quad 2-input NAND schmitt trigger	★	.35	.27
869689	74LVX14MTC	TSSOP-14	Hex inverter w/ schmitt trigger input	★	.16	.13
869718	74LVX3245MTC	TSSOP-24	8-bit dual supply translating trans. w/ 3-st.	★	1.11	.89
784423	74LVX541M	SOIC-20	Octal buffer/line driver w/ 3-st. (non-inverting)	★	.31	.259
869734	74LVX3245MTC	TSSOP-24	8-bit dual supply volt. interface trans. w/ 3-st.	★	.81	.65
784431	74LVX4245QSC	QSOP-24	8-bit dual supply volt. interface trans. w/ 3-st.	★	.72	.71



## IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white

22104



Part No.	Cross Ref.	Description	1	10	25
22104	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$8.34	\$7.50	\$6.71
22120	JTC20	20-pin (for 18 and 20-pin ICs)	10.15	7.35	6.05
22162	JTC28	28-pin (for 24 and 28-pin ICs)	10.95	9.95	8.95
22190	JTC40	40-pin (for 32 and 40-pin ICs)	14.65	13.90	13.17

# 74LVX, 74LCX, 74LVT/LVTH, 74VHC/VHCT, 74VHC Series & ECL Logic

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## ON Semiconductor® 74LVX Series

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NEW

Part No.	Cross Ref.	Pkg.	Description	1	10	100
797005	MC74LVX08DT <sup>1</sup>	TSSOP-14	Quad 2-input NAND gate	\$.25	\$.208	\$.187
797021	MC74LVX125D <sup>1</sup>	SOIC-14	Quad bus buffer	.38	.33	.235
797144	MC74LVX3245DTG <sup>2</sup>	TSSOP-24	Configurable dual supply octal trans	1.69	1.55	1.41
797064	MC74LVX4245DTG <sup>2</sup>	TSSOP-24	Dual supply octal translating trans	.99	.93	.75
797101	MC74LVX4245DWG <sup>2</sup>	SOIC-24	Dual supply octal translating trans	1.69	1.55	1.41

1 with 5V tolerant inputs 2 3-state outputs

## 74LCX Series (3.3V)

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\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
868900	74LCX04M <sup>1</sup>	SOIC-14	Hex inverter	* \$	\$1.36	\$1.08
868934	74LCX04MTC <sup>1</sup>	TSSOP-14	Hex inverter	.28	.207	.172
784247	74LCX07M <sup>1</sup>	SOIC-14	Hex buffer open drain output	.21	.165	.137
868969	74LCX08M <sup>1</sup>	SOIC-14	Quad 2-input AND gate	.25	.185	.154
869056	74LCX125M <sup>2,3</sup>	SOIC-14	Quad buffer with 3-st.	.21	.18	.137
869081	74LCX125MTC <sup>2,3</sup>	TSSOP-14	Quad buffer with 3-st.	.21	.18	.146
869110	74LCX138M <sup>1</sup>	SOIC-16	1-of-8 decoder/demultiplexer	.26	.218	.176
869152	74LCX138MTC <sup>1</sup>	TSSOP-16	1-of-8 decoder/demultiplexer	*	.16	.13
869179	74LCX14M <sup>1</sup>	SOIC-14	Hex inverter	*	.165	.134
869208	74LCX14MTC <sup>1</sup>	TSSOP-14	Hex inverter	*	.262	.196
784255	74LCX16244MTD <sup>5,6</sup>	TSSOP-48	16-bit buffer/line driver	.58	.484	.388
784263	74LCX16240MTD <sup>5,6</sup>	TSSOP-48	16-bit buffer/line driver	.58	.484	.388
869232	74LCX16244MTD <sup>2,5</sup>	TSSOP-48	16-bit buffer/line driver	.58	.471	.37
869312	74LCX16245MTD <sup>2,5</sup>	TSSOP-48	16-bit bidirectional transceiver	.58	.471	.37
784301	74LCX16373MTD <sup>2,5</sup>	TSSOP-48	16-bit transparent latch	.59	.471	.388
869371	74LCX244MTC <sup>2,5</sup>	TSSOP-20	Buffer/line driver	.24	.18	.15
869427	74LCX245MTC <sup>2,5</sup>	TSSOP-20	Bidirectional transceiver	.24	.18	.15
869486	74LCX245MM <sup>2,5</sup>	SOIC-20	Bidirectional transceiver	.24	.194	.19
869540	74LCX541MTC <sup>2,5</sup>	TSSOP-20	Octal buffer/line driver	.40	.294	.245
869574	74LCX74M <sup>1</sup>	SOIC-14	Dual D-type pos. edge trig. F-F	*	.165	.127
869591	74LCX74MTC <sup>1</sup>	TSSOP-14	Dual D-type pos. edge trig. F-F	.18	.119	.099

1 5V tolerant inputs 2 5V tolerant inputs and outputs 3 non-inverting

4 5V tolerant schmitt trigger inputs 5 3-state outputs, non-inverting 6 with 26Ω series resistors

## ON Semiconductor® 74LCX Series

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NEW

Part No.	Cross Ref.	Pkg.	Description	1	10	100
796723	MC74LCX04DTG <sup>1</sup>	TSSOP-14	Hex inverter	\$.34	\$.308	\$.276
796740	MC74LCX08D <sup>1</sup>	SOIC-14	Quad 2-input AND gate	.28	.249	.224
875667	MC74LCX08DT <sup>1</sup>	TSSOP-14	Quad 2-input AND gate	.24	.228	.216
796942	MC74LCX32DT <sup>1</sup>	TSSOP-14	Quad 2-input OR gate	.24	.228	.216
875675	MC74LCX125D <sup>2,3</sup>	SOIC-14	Quad buffer	.31	.224	.186
796766	MC74LCX125DTG <sup>2,3</sup>	TSSOP-14	Quad buffer	.21	.183	.155
796782	MC74LCX138DT <sup>1</sup>	TSSOP-16	3-to-8 decoder/demultiplexer	.28	.268	.255
796803	MC74LCX138DTG <sup>1</sup>	TSSOP-16	3-to-8 decoder/demultiplexer	.22	.192	.164
796820	MC74LCX15DTG <sup>1,4</sup>	TSSOP-16	Quad 2-input multiplexer	.23	.202	.173
796900	MC74LCX24DTG <sup>2,3</sup>	TSSOP-20	Octal buffer	.30	.262	.224
875819	MC74LCX244DW <sup>2,3</sup>	SOIC-20	Octal buffer	.33	.329	.302
875851	MC74LCX245DW <sup>2,5</sup>	SOIC-20	Octal transceiver	.53	.485	.434
796926	MC74LCX257DT <sup>2,3</sup>	TSSOP-16	Quad 2-input multiplexer	.28	.268	.255
796969	MC74LCX373DT <sup>2,3</sup>	TSSOP-20	Octal transparent latch	.30	.269	.242
796985	MC74LCX541DW <sup>2,3</sup>	SOIC-20	Octal buffer flow through pin-out	.39	.351	.316
875739	MC74LCX16244DT <sup>2,3</sup>	TSSOP-48	16-bit buffer	.67	.65	.62
796846	MC74LCX16245DTG <sup>2,3</sup>	TSSOP-48	16-bit transceiver	1.46	1.34	1.18
796862	MC74LCX16373DTG <sup>2,3</sup>	TSSOP-48	16-bit transparent latch	1.46	1.34	1.19
796889	MC74LCX16374DT <sup>2,3</sup>	TSSOP-48	16-bit D-type flip-flops	1.18	.86	.71

1 with 5V tolerant inputs 2 with 5V tolerant inputs/outputs 3 3-state, non-inverting

4 non-inverting 5 3-state, inverting

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♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## 74LVT/74LVTH Series (3.3V)

For more Fairchild 74LVT/74LVTH  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
784327	74LVT16224MTD <sup>1,2</sup>	TSSOP-48	16-bit buffer/line driver w/ 3-st.	\$.65	\$.524	\$.431
869611	74LVT16244MTD <sup>1</sup>	TSSOP-48	16-bit buffer/line driver w/ 3-st.	.65	.524	.412
869638	74LVT244MTC <sup>1</sup>	TSSOP-20	Octal buffer/line driver w/ 3-st.	.33	.277	.224
784351	74LVTH16245MTD <sup>1</sup>	TSSOP-48	16-bit transceiver w/ 3-st.	.65	.524	.431
784360	74LVTH244MTC <sup>1</sup>	TSSOP-20	Octal buffer/line driver w/ 3-st.	.40	.34	.274

1 3-state outputs, non-inverting 2 with 25Ω series resistors

## 74VHC/74VHCT Series

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visit [www.Jameco.com](http://www.Jameco.com)

\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
869769	74VHC00M <sup>1</sup>	SOIC-14	Quad 2-input NAND gate	* \$	\$1.26	\$1.18
784491	74VHC04MTC <sup>1</sup>	TSSOP-14	Hex inverter	.31	.262	.196
869822	74VHC123AM <sup>1</sup>	SOIC-16	Dual retrig. mono. multivibrator	.26	.198	.165
869857	74VHC138M <sup>1</sup>	SOIC-16	3-to-8 decoder/demultiplexer	.31	.259	.207
869873	74VHC14M <sup>1</sup>	SOIC-14	Hex schmitt inverter	*	.146	.127
784520	74VHC161284MTD <sup>1</sup>	TSSOP-48	IEEE 1284 transceiver	.90	.81	.73
784538	74VHC161M <sup>1</sup>	SOIC-16	4-bit binary cntl w/ asynch. clear	.39	.311	.259
869911	74VHC244MTC <sup>1</sup>	SOIC-20	Octal buffer/line driver w/ 3-st.	.22	.166	.138
784554	74VHC245M <sup>1</sup>	SOIC-20	Octal bidirectional trans. w/ 3-st.	.23	.177	.147
784562	74VHC245MTC <sup>1</sup>	TSSOP-20	Octal bidirectional trans. w/ 3-st.	.22	.177	.147
869937	74VHC32M <sup>1</sup>	SOIC-14	Quad 2-input OR gate	*	.126	.118
784571	74VHC4040M <sup>1</sup>	SOIC-16	12-stage binary counter	.61	.524	.423
784589	74VHC4046M <sup>1</sup>	SOIC-16	CMOS phase lock loop	.40	.334	.267
870014	74VHC573M <sup>1</sup>	SOIC-20	Octal D-type latch w/ 3-st.	.26	.208	.173
870031	74VHC595MTC <sup>1</sup>	TSSOP-16	8-bit shift reg. w/ output latches	.23	.193	.155
784600	74VHC04AM <sup>1</sup>	SOIC-14	Hex inverter	*	.11	.90
784642	74VHC245AM <sup>1</sup>	SOIC-20	Octal buffer/line driver w/ 3-st.	.22	.177	.147
784677	74VHC74AMTC <sup>1</sup>	TSSOP-14	Dual D-type F-F w/ preset & clear	*	.281	.206
784685	74VHC04MTC <sup>1</sup>	TSSOP-14	Hex inverter	.31	.262	.189

## ON Semiconductor® 74VHC Series

For more ON Semi 74VHC  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
875915	MC74VHC1G08DT1 <sup>1</sup>	SOT-23/5	Single 2-input AND gate	★	Call	Call
797187	MC74VHC14D <sup>1</sup>	SOIC-14	Hex schmitt inverter	.26	.233	.167
875931	MC74VHC1G66DT1 <sup>1</sup>	SOT-23/5	Single supply analog switch	★	Call	Call
797216	MC74VHC74DT <sup>1</sup>	TSSOP-14	Dual D-type flip-flops with set & reset	.35	.254	.211
875958	MC74VHC1GT125DF1 <sup>1</sup>	SOT-353	Non-inverting buffer/CMOS logic level shifter	★	Call	Call
797161	MC74VHC138D <sup>1</sup>	SOIC-16	3-to-8 line decoder	.60	.54	.363
797208	MC74VHC245DT <sup>1</sup>	TSSOP-20	Octal bus transceiver	.27	.247	.222

★ Please call or visit our website for minimum order quantity and pricing

## ON Semiconductor® ECL Logic Series

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visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
867149	MC10E016FN <sup>1</sup>	PLCC-28	5V ECL 8-bit synch. binary up counter	\$10.39	\$9.47	\$8.61
867165	MC10E111FN <sup>1</sup>	PLCC-28	5V ECL 1:9 diff. clock driver	9.29	8.43	7.67
867190	MC10EL11D <sup>1</sup>	SOIC-8	5V ECL 1:2 diff. fan out buffer	5.89	5.19	4.59
867229	MC10EL32D <sup>1</sup>	SOIC-8	5V ECL ÷2 divider	4.85	4.58	4.31
867253	MC10EL51D <sup>1</sup>	SOIC-8	5V ECL diff. clock D flip-flop	4.55	4.43	4.31
867270	MC10EL57D <sup>1</sup>	SOIC-16	5V ECL 4:1 diff. multiplexer	9.18	7.65	6.63
867309	MC10ELT20D <sup>1</sup>	SOIC-8	5V TTL to diff. PECL translator	4.55	4.27	3.28
867333	MC10ELT21D <sup>1</sup>	SOIC-8	5V diff. PECL to TTL translator	4.55	4.27	3.28
867368	MC10ELT22D <sup>1</sup>	SOIC-8	5V dual TTL to diff. PECL translator	4.06	3.38	3.28
867392	MC10ELT24D <sup>1</sup>	SOIC-8	5V TTL to diff. ECL translator	5.35	4.15	3.60
867421	MC10ELT25D <sup>1</sup>	SOIC-8	-5V diff. ECL to TTL translator	4.55	4.15	3.28
791551	MC10H101P <sup>1</sup>	PDIP-16	Quad 2-input OR/NOR gate	2.89	2.63	2.57
791578	MC10H102P <sup>1</sup>	PDIP-16	Quad 2-input NOR gate	2.99	2.75	2.57
791594	MC10H105P <sup>1</sup>	PDIP-16	Triple 2-3-2 input OR/NOR gate	3.09	2.82	2.57
791607	MC10H115P <sup>1</sup>	PDIP-16	Quad line receiver	3.09	2.82	2.57
867456	MC10H116D <sup>1</sup>	DIP-16	Triple line receiver	4.35	4.07	3.35
867472	MC10H116FN <sup>1</sup>	PLCC-20	Triple line receiver	3.95	3.70	3.04

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## ON Semiconductor® ECL Series (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
867501	MC10H116P▲	DIP-16	Triple line receiver .....	\$3.16	\$2.96	\$2.66
791640	MC10H123PG▲	PDIP-16	Triple 4-3-3 input bus driver .....	3.59	3.38	3.17
867536	MC10H124FN▲	PLCC-20	Quad TTL-to-MECL translator w/ TTL strobe .....	5.75	5.49	5.24
791666	MC10H124PG▲	PDIP-16	Quad TTL-to-MECL translator w/ TTL strobe .....	5.29	4.85	4.81
867587	MC10H125FN▲	PLCC-20	Quad MECL-to-TTL translator .....	8.55	6.64	5.76
867616	MC10H125P▲	PDIP-16	Quad MECL-to-TTL translator .....	7.05	5.79	5.31
867641	MC10H131FN▲	PLCC-20	Dual D-type master-slave flip-flop .....	6.79	5.69	5.62
867667	MC10H131P▲	PDIP-16	Dual D-type master-slave flip-flop .....	5.05	4.92	4.81
791682	MC10H350FNG▲	PLCC-20	PECL-to-TTL translator .....	14.19	13.01	12.92
867721	MC10H351P▲	PDIP-20	Quad TTL/NMOS to PECL translator ....	21.05	19.13	17.39
866349	MC100EL11D▲	SOIC-8	5V ECL 1:2 diff. fan out buffer .....	5.09	4.12	3.70
866373	MC100EL15D▲	SOIC-16	5V ECL 1:4 clock distribution chip .....	4.55	4.19	4.14
791252	MC100EL16DG▲	SOIC-8	5V ECL diff. receiver .....	3.89	3.55	3.45
791279	MC100EL33DG▲	SOIC-8	5V ECL ÷4 divider .....	5.88	4.90	4.41
791295	MC100EL34DG▲	SOIC-16	5V ECL ÷2, ÷4, ÷8 clock generation chip .....	6.29	6.25	6.20
791316	MC100EL56DWG▲	SOIC-20	5V ECL dual diff. 2:1 multiplexer ...	7.75	7.06	6.89
866411	MC100EL16DG▲	SOIC-16	5V ECL diff. receiver .....	6.79	6.17	6.03
791341	MC100EL58DG▲	SOIC-8	5V ECL 2:1 multiplexer .....	6.25	5.69	5.17
791359	MC100EL91DWG▲	SOIC-20	5V triple PECL to -5V ECL translator ....	8.49	7.85	7.75
866453	MC100ELT20D▲	SOIC-8	5V TTL to diff. PECL translator .....	3.69	3.39	3.28
866488	MC100ELT21D▲	SOIC-8	5V diff. to TTL translator .....	3.69	3.48	3.28
866541	MC100ELT23D▲	SOIC-8	5V dual diff. PECL to TTL translator ....	3.69	3.38	3.28
791391	MC100ELT24DG▲	SOIC-8	5V TTL to diff. ECL translator .....	3.69	3.38	3.28
866592	MC100ELT25D▲	SOIC-8	-5V differential ECL to TTL translator ..	3.69	3.38	3.28
791412	MC100EP08DTG▲	TSSOP-8	3.3V/5V ELC 2-input diff. XOR/XNOR ..	8.99	8.29	7.59
866621	MC100EP11D▲	SOIC-8	3.3V/5V ECL 1:2 diff. fan out buffer ....	7.19	6.54	5.95
866681	MC100EP16D▲	SOIC-8	3.3V/5V ECL diff. receiver/driver ...	6.25	5.68	5.17
866744	MC100LVE111FN▲	PLCC-28	3.3V ECL 1:9 diff. clock driver .....	9.29	8.43	7.67
866779	MC100LVE111D▲	SOIC-8	3.3V ECL 1:2 diff. fan out buffer ....	5.89	4.59	3.98
866824	MC100LVE14DW▲	SOIC-20	3.3V ECL 1:5 clock distribution chip ....	8.75	8.03	7.75
791439	MC100LVE16DG▲	SOIC-8	3.3V ECL diff. receiver .....	3.89	3.55	3.45
866904	MC100LVE29DW▲	SOIC-20	3.3V ECL dual diff. D-type F-F w/ set/clear ..	9.39	8.52	7.75
791455	MC100LVE37DWG▲	SOIC-20	3.3V ECL 1:4 ÷1/2 clock fan out buffer ...	13.35	10.78	9.70
791471	MC100LVE151DG▲	SOIC-8	3.3V ECL diff. clock D flip-flop ....	5.45	5.31	5.17
791498	MC100LVE56DWG▲	SOIC-20	3.3V ECL dual diff. 2:1 multiplexer .....	7.75	7.06	6.89
866963	MC100LVE90DV▲	SOIC-20	-3.3V/-5V triple ECL to LVPECL translator ..	9.39	8.52	7.75
791519	MC100LVE91DWG▲	SOIC-20	3.3V triple LVPECL to -3.3V to -5V ECL translator ..	8.75	7.94	7.75
866998	MC100LVE92DW▲	SOIC-20	5V triple PECL to LVPECL translator .....	8.75	8.03	7.75
867018	MC100LVE22D▲	SOIC-8	3.3V dual LVTTTL/LVCMOS to diff. LVPECL translator ..	4.55	4.27	3.28
791535	MC100LVE22DTG▲	TSSOP-8	3.3V dual LVTTTL/LVCMOS to diff. LVPECL translator ..	6.19	5.77	4.46
867069	MC100LVE23D▲	SOIC-8	3.3V dual diff. LVPECL to LVTTTL translator ..	4.06	3.38	3.28
867093	MC100LVE23DT▲	TSSOP-8	3.3V dual diff. LVPECL to LVTTTL translator ....	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

## DALLAS Dallas Semiconductor

Part No.	Product No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip .....	\$4.45	\$3.78	\$2.84
114219	DS1213C	DIP-28	Smart socket .....	19.05	14.54	12.98
697223	DS1216B▲	DIP-28	Smart watch/RAM (Intelligent socket) ....	36.59	28.26	24.84
133410	DS1216C	DIP-28	Smart watch/RAM .....	30.55	25.14	18.59
114331	DS1232	DIP-8	Micromonitor chip .....	1.85	1.34	1.02
697231	DS1243Y-120	EMOD-28	64k non-volatile SRAM w/ phantom clock ....	44.95	36.87	28.79
133444	DS1286	DIP-28	Watchdog timekeeper .....	22.15	16.90	12.40
76646	DS1287▲	DIP-24	Real time clock chip .....	8.70	7.38	6.64
176778	DS1302	DIP-8	Trickle charge time keeping .....	3.19	2.44	1.48
114382	DS1620	DIP-8	Digital thermometer and thermostat .....	5.35	4.42	3.39
697266	DS2430A	TO-92	1-wire, 256B EEPROM .....	3.29	2.48	2.21
133452	DS12887	DIP-24	Real time clock chip .....	8.15	6.93	5.19
299997	DS12887A	DIP-24	Real time clock chip .....	8.15	6.22	4.15

▲ Pull = Extra Savings

## MPU Supervisory

Part No.	Cross Ref.	Pkg.	Description	1	10	100
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V .....	\$5.45	\$4.64	\$3.16
106227	MAX691CPE	DIP-16	Watchdog timer, 4.65V .....	5.75	3.85	3.23
106260	MAX1232CPA	DIP-8	Watchdog timer, 4.65V - 4.75V .....	2.85	1.85	1.53

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## MAXIM Supervisory

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
819534	MAX6905ESA	SOIC-8	3V/3.3V uP sup. circuit (I-temp) .....	\$8.99	\$8.36	\$7.83
884846	MAX690ACSA	SOIC-8	uP supervisory circuit (C-temp) .....	6.45	5.26	4.74
884862	MAX690AESA	SOIC-8	uP supervisory circuit (I-temp) .....	9.05	7.16	6.63
884889	MAX690EPA	DIP-8	uP supervisory circuit (I-temp) .....	9.89	7.58	6.82
884993	MAX691EPE	DIP-16	uP supervisory circuit (I-temp) .....	10.75	8.23	7.41
885013	MAX691EWE	SOIC-16	uP supervisory circuit (I-temp) .....	11.19	9.05	8.15
885030	MAX692AESA	SOIC-8	uP supervisory circuit (I-temp) .....	9.55	7.37	6.63
885056	MAX692CPA	DIP-8	uP supervisory circuit (C-temp) .....	6.75	5.22	4.71
885110	MAX703ESA	SOIC-8	uP sup. circuit w/ battery back-up (I-temp) ..	7.39	5.72	5.15
820463	MAX704CSA	SOIC-8	uP sup. circuit w/ battery back-up (C-temp) ..	5.69	4.40	3.97
820560	MAX705ESA	SOIC-8	3V/3.3V uP sup. circuit (I-temp) .....	7.19	6.47	5.82
885136	MAX705ESA	SOIC-8	Low-cost uP supervisory circuits (I-temp) ..	6.29	5.13	4.62
885152	MAX705MJA	DIP-8	Low-cost uP sup. circuits (-55° to 125°C) ..	11.05	10.31	9.66
820800	MAX706ESA	SOIC-8	Low-cost uP supervisory circuit (I-temp) ....	6.65	5.13	4.62
885195	MAX706TCSA	SOIC-8	+3V voltage monitor uP sup. circuit (C-temp) ..	4.75	4.27	3.84
885216	MAX709ESA	SOIC-8	Low-cost uP sup. circuits (I-temp) .....	5.09	4.59	4.14
885232	MAX708CSA	SOIC-8	Low-cost uP supervisory circuit (C-temp) ...	4.35	3.54	3.19
885259	MAX708ESA	SOIC-8	Low-cost uP supervisory circuit (I-temp) ....	5.95	5.51	5.17
821108	MAX708RESA	SOIC-8	+3V voltage monitor uP sup. circuit (I-temp) ..	6.39	5.97	5.60
885267	MAX708SCSA	SOIC-8	+3V voltage monitor uP sup. circuit (C-temp) ..	4.69	3.83	3.45
821132	MAX708SESA	SOIC-8	+3V voltage monitor uP sup. circuit (I-temp) ...	6.39	5.97	5.60
885283	MAX708TCSA	SOIC-8	3V volt monitor uP sup. circuit (C-temp) .....	4.95	3.83	3.45
823015	MAX793SCSE	SOIC-16	3V/3.3V adj. uP sup. circuit (C-temp) .....	7.99	6.18	5.57
823082	MAX793TESE	SOIC-16	3V/3.3V adj. uP sup. circuit (I-temp) .....	10.49	8.04	7.24
823146	MAX795SCSA	SOIC-8	3V/3.3V adj. uP sup. circuit (C-temp) .....	7.79	7.26	6.80
823293	MAX807LCPE	DIP-16	uP sup. circuit w/ ±1.5% reset accuracy .....	7.95	7.42	6.95
823402	MAX813LESA	SOIC-8	Low-cost uP supervisory circuits (4.65V) I-temp ..	4.19	3.25	2.93
819833	MAX693EWE	SOIC-16	uP supervisory circuit (I-temp) .....	11.65	10.86	10.18
885620	MAX791CSE	SOIC-16	uP supervisory circuit (C-temp) .....	8.29	6.43	5.79
885646	MAX791ESE	SOIC-16	uP supervisory circuit (I-temp) .....	10.95	8.36	7.53
823744	MAX818LCPA	DIP-8	+5V uP supervisory circuit .....	★	Call	Call
884635	MAX6301ESA	SOIC-8	+5V LP uP sup. circuit w/ adj. reset/watchdog (I-temp) ..	3.59	2.76	2.48

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## TEXAS INSTRUMENTS Power Management Volt. Reference

\* Minimum order 5 pieces

Part No.	Cross Ref.	Pkg.	Description	1	5	50
908406	REF020AP	DIP-8	+5V precision voltage ref .....	\$3.59	\$3.33	\$3.14
908449	REF020AU	SOIC-8	+5V precision voltage ref .....	★	Call	Call
908588	REF102AU	SOIC-8	+10V precision voltage ref .....	★	Call	Call
908625	REF200AU	SOIC-8	Dual current source/current sink .....	★	Call	Call
826259	LM285D-2-5	SOIC-8	Micropower voltage ref. ....	*	.265	.25
826857	LM385BD-1-2	SOIC-8	Micropower voltage ref. ....	*	.193	.182
826873	LM385D-1-2	SOIC-8	Micropower voltage ref. ....	*	.344	.321
826902	LM385D-2-5	SOIC-8	Micropower voltage ref. ....	*	.189	.176
760376	TL431ACD	SOIC-8	Adjustable precision shunt regulators ....	*	.135	.126
822266	TL431ACDBVTE4	SOT-23/3	Adjustable precision shunt regulators ....	★	Call	Call
760413	TL431ACLP	TO-92	Adjustable precision shunt regulators ....	*	.123	.114
760430	TL431AID	SOIC-8	Adjustable precision shunt regulators ....	*	.123	.114
760456	TL431AIDBVT	SOT-23/5	Adjustable precision shunt regulators ..	★	Call	Call
822320	TL431AIP	DIP-8	Adjustable precision shunt regulators ....	*	.246	.229
822354	TL431BCD	SOIC-8	Adjustable precision shunt regulators ....	*	.246	.229
822371	TL431BOD	SOIC-8	Adjustable precision shunt regulators ....	*	.41	.387
760499	TL431CD	SOIC-8	Adjustable precision shunt regulators ....	*	.118	.11
822418	TL431CP	DIP-8	Adjustable precision shunt regulators ....	*	.135	.126
760544	TL431CPK	SOT-89/3	Adjustable precision shunt regulators ....	★	Call	Call
760561	TL431ID	SOIC-8	Adjustable precision shunt regulators ....	*	.118	.11
760608	TL431ILP	TO-92	Adjustable precision shunt regulators ....	*	.118	.11
822442	TL431IP	DIP-8	Adjustable precision shunt regulators ....	★	Call	Call
760641	TL431IPK	SOT-89/3	Adjustable precision shunt regulators ....	★	Call	Call
826494	TLV431ACDBVT	SOT-23/5	Adjustable precision shunt regulators ....	★	Call	Call
826523	TLV431AID	SOIC-8	Adjustable precision shunt regulators ....	*	.393	.367
826540	TLV431AIDBVT	SOT-23/5	Adjustable precision shunt regulators ....	★	Call	Call
903120	LT1004CD-1-2	SOIC-8	Micropower integrated voltage ref. ....	*	.338	.318
903154	LT1004ID-1-2	SOIC-8	Micropower integrated voltage ref. ....	1.29	1.20	1.13

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## Power Management Volt. Reference

Part No.	Cross Ref.	Pkg.	Description	1	5	50
<b>903189</b>	LT1009CD	SOIC-8	2.5V integrated ref. circuit	\$0.65	\$0.60	\$0.56
<b>822055</b>	TL1431CDE4	SOIC-8	Precision programmable ref.	*	.265	.25
<b>760202</b>	TL1431QD	SOIC-8	Precision programmable ref.	.79	.72	.68
<b>908650</b>	REF3012AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA	★	Call	Call
<b>908692</b>	REF3020AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA	★	Call	Call
<b>908730</b>	REF3025AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA	★	Call	Call
<b>908772</b>	REF3033AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA	★	Call	Call
<b>908810</b>	REF3040AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA	★	Call	Call
<b>827067</b>	LM4040C30IDBZT	SOT-23/3	Precision micropower shunt volt ref.	★	Call	Call
<b>827091</b>	LM4040C41IDBZT	SOT-23/3	Precision micropower shunt volt ref.	★	Call	Call

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## Power Management

Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>792079</b>	MC1403DG	SOIC-8	Low-voltage reference	\$0.80	\$0.75	\$0.64
<b>312961</b>	UC3906N	DIP-16	Linear lead acid battery charger	5.15	4.89	4.63
<b>241808</b>	ICL7665SCPA	DIP-8	2-16V voltage detector	2.35	1.99	1.49

## MAXIM Power Supply Monitor



Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>820316</b>	MAX700ESA	SOIC-8	Power-supply monitor w/ reset (I-temp)	\$6.29	\$4.83	\$4.40
<b>885072</b>	MAX701CPA	DIP-8	Power-supply monitor w/ reset	3.45	3.26	3.07
<b>885099</b>	MAX701CSA	SOIC-8	Power-supply monitor w/ reset	4.45	3.37	3.07
<b>820332</b>	MAX701CSA+	SOIC-8	Power-supply monitor w/ reset	4.39	3.37	3.07
<b>820404</b>	MAX702CSA	SOIC-8	Power-supply monitor w/ reset	4.85	3.76	3.38
<b>885304</b>	MAX709LCSA	SOIC-8	Power-supply monitor w/ reset (4.65V)	2.55	2.07	1.86
<b>885321</b>	MAX709LESA	SOIC-8	Power-supply monitor w/ reset (I-temp) 4.65V	3.49	3.26	3.06

## National Semiconductor LVDS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>891472</b>	DS90C031BTM	SOIC-16	Quad CMOS diff. line driver	\$2.84	\$2.36	\$2.21
<b>833424</b>	DS90C031TMNOPB	SOIC-16	Quad CMOS diff. line driver	3.09	2.37	1.82
<b>891552</b>	DS90C032BTM	SOIC-16	Quad CMOS diff. line receiver	3.09	2.36	2.21
<b>833441</b>	DS90C032TMNOPB	SOIC-16	Quad CMOS diff. line receiver	1.79	1.47	1.25
<b>891632</b>	DS90C401TM	SOIC-8	Dual LV diff. signaling driver	2.39	1.84	1.73
<b>891667</b>	DS90C402TM	SOIC-8	Dual LV diff. signaling receiver	2.39	1.84	1.73
<b>891712</b>	DS90C22M-8	SOIC-16	2 x 2 800Mbps crosspoint switch	6.39	5.59	5.39
<b>891755</b>	DS90CR285MTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.39	5.59	5.43
<b>891798</b>	DS90CR286AMTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.09	5.99	5.74
<b>891835</b>	DS90CR286MTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.09	5.59	5.14
<b>833467</b>	DS90LV01TMNOPB	SOIC-8	3V buffer	2.29	1.69	1.31
<b>892011</b>	DS90LV017ATM	SOIC-8	Single high-speed diff. driver	1.79	1.33	1.04
<b>833491</b>	DS90LV018ATMNOPB	SOIC-8	3V Single CMOS diff. line receiver	2.05	1.53	1.18
<b>892096</b>	DS90LV019TM	SOIC-14	3.3V or 5V drv/rcv	2.59	1.95	1.83
<b>892133</b>	DS90LV019TMTC	TSSOP-14	3.3V or 5V drv/rcv	2.39	1.95	1.83
<b>892176</b>	DS90LV027ATM	SOIC-8	Dual high-speed diff. driver	1.89	1.43	1.11
<b>892256</b>	DS90LV028ATMNOPB	SOIC-8	3V Dual CMOS diff. line receiver	2.05	1.52	1.47
<b>833563</b>	DS90LV031BTMNOPB	SOIC-16	3V quad CMOS diff. line driver	2.69	2.05	1.92
<b>892441</b>	DS90LV032ATMNOPB	SOIC-16	3V quad CMOS diff. line receiver	1.69	1.53	1.39
<b>892475</b>	DS90LV032ATMTC	TSSOP-16	3V quad CMOS diff. line receiver	2.69	2.05	1.92
<b>892521</b>	DS90LV047ATM	SOIC-16	3V quad CMOS diff. line driver	2.65	2.01	1.88
<b>892627</b>	DS90LV047ATMTCNOPB	TSSOP-16	3V quad CMOS diff. line driver	2.65	2.01	1.88
<b>833598</b>	DS90LV048ATMNOPB	SOIC-16	3V quad CMOS diff. line receiver	2.65	2.00	1.88
<b>892707</b>	DS90LV048ATMTC	TSSOP-16	3V quad CMOS diff. line receiver	2.65	2.01	1.88
<b>892740</b>	DS90LV049TMT	TSSOP-16	3V dual line driver w/ dual line rec.	2.45	1.81	1.40
<b>892782</b>	DS90LV110TMT	TSSOP-28	1 to 10 data/clock distributor	9.55	8.99	8.07
<b>892820</b>	DS92LV010ATM	SOIC-8	Bus 3.3V/5V single transceiver	3.09	2.35	2.21

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## 65LVDS Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>910371</b>	SN65LVDS1DBVT	SOIC-23/5	High-speed diff. line driver/receiver	★	Call	Call
<b>829855</b>	SN65LVDS2D	SOIC-8	High-speed diff. line driver/receiver	.99	.90	.85
<b>910670</b>	SN65LVDT2DBVT	SOT-23/5	High-speed diff. line driver/rec	★	Call	Call
<b>829986</b>	SN65LVDT33D	SOIC-16	High-speed diff. line receivers (4 rec)	3.35	3.11	2.93
<b>830004</b>	SN65LVDT34D	SOIC-8	High-speed diff. receivers (2 rec)	2.45	2.25	2.11
<b>829775</b>	SN65LVDS047D	SOIC-16	Quad diff. line driver	2.75	2.53	2.39
<b>829791</b>	SN65LVDS049PW	TSSOP-16	Dual diff. drivers/receivers	2.15	1.95	1.84
<b>829812</b>	SN65LVDS105D	SOIC-16	4-port TTL-to-LVDS repeater (1 in/4 out)	4.75	4.37	4.12
<b>910717</b>	SN65LVDT386DGG	TSSOP-64	High-speed diff. line rec (16 rec, C-temp.)	11.65	10.80	10.17
<b>910522</b>	SN65LVDS387DGG	TSSOP-64	High-speed diff. line drvs (16 drvs, I-temp.)	11.65	10.80	10.17
<b>829943</b>	SN65LVDS388ADB	SM8-38	High-speed diff. line rec (8 rec, I-temp.)	6.09	5.65	5.33
<b>910741</b>	SN65LVDT388ADB	SM8-38	High-speed diff. line rec (8 rec, I-temp.)	6.09	5.65	5.33
<b>910565</b>	SN65LVDS389DB	SM8-38	High-speed diff. line drvs (8 drvs, I-temp.)	6.09	5.65	5.33
<b>829960</b>	SN65LVDS390D	SOIC-16	High-speed diff. line rec (4 rec, I-temp.)	3.15	2.92	2.75
<b>910784</b>	SN65LVDT390PW	TSSOP-16	High-speed diff. line rec (4 rec, I-temp.)	3.15	2.92	2.75
<b>910451</b>	SN65LVDS3486D	SOIC-16	High-speed diff. line rec (I-temp.)	3.15	2.92	2.75
<b>829919</b>	SN65LVDS3487D	SOIC-16	High-speed diff. line drivers (I-temp.)	3.15	2.92	2.75
<b>910590</b>	SN65LVDS9637BD	SOIC-8	High-speed diff. rec (2 rec)	2.45	2.25	2.11
<b>910637</b>	SN65LVDS9638DGG	MSOP-8	High-speed diff. line drivers (I-temp.)	2.45	2.25	2.11

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## 65LVD/MLVD Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>829687</b>	SN65LVDM050D	SOIC-16	High-speed diff. line drivers/receiver	\$4.65	\$4.30	\$4.05
<b>829708</b>	SN65LVDM051D	SOIC-16	High-speed diff. line drivers/receiver	4.65	4.30	4.05
<b>829759</b>	SN65LVDM31D	SOIC-16	High-speed differential line driver	3.25	3.02	2.84
<b>829724</b>	SN65LVDM180D	SOIC-14	High-speed diff. line drivers/receiver	3.59	3.31	3.11
<b>910830</b>	SN65MLVD200AD	SOIC-8	Multipoint-LVDS line driver/receiver	3.85	3.55	3.34
<b>910872</b>	SN65MLVD201D	SOIC-8	Multipoint-LVDS line driver/receiver	4.59	4.25	4.00
<b>830021</b>	SN65MLVD204AD	SOIC-8	Multipoint-LVDS line driver/receiver	3.85	3.55	3.34
<b>910291</b>	SN65LVDM167DGG	TSSOP-64	High-speed diff. line transceivers	16.89	15.68	14.77

## MAXIM Hot Swap Interface

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>809740</b>	MAX3070EESD	SOIC-14	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX	\$3.85	\$3.07	\$2.79
<b>809791</b>	MAX3074EESA	SOIC-8	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX	4.15	3.07	2.79
<b>809811</b>	MAX3076EASD	SOIC-14	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX	5.19	3.85	3.50
<b>809820</b>	MAX3077EESA	SOIC-8	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX	4.15	3.07	2.79
<b>809846</b>	MAX3078EESA	SOIC-8	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX	3.99	3.72	3.49

## MAXIM RS-232 Drivers/Rec.

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>808000</b>	MAX202CSE+	SOIC-16	+5V dual RS-232 trans. w/ 0.1µF ext. cap	\$3.09	\$2.44	\$2.16
<b>882023</b>	MAX202EESA	SOIC-16	±15kV ESD-protect, +5V dual RS-232 trans.	5.05	3.98	3.52
<b>808122</b>	MAX202EWE	SOIC-16	+5V, dual RS-232 trans. w/ 0.1µF ext. cap	3.09	2.85	2.59
<b>808157</b>	MAX203CPP	DIP-20	+5V, dual RS-232 trans. w/ 0.1µF ext. cap	6.95	5.49	4.84
<b>882082</b>	MAX203EWP	SOIC-20	+5V, dual RS-232 trans. w/ 0.1µF ext. cap	7.05	6.39	5.81
<b>882138</b>	MAX208EEAG	SSOP-24	±15kV ESD-protect, +5V RS-232 trans.	10.75	8.41	7.43
<b>808405</b>	MAX211ECWI	SOIC-28	±15kV ESD-protect, +5V RS-232 trans. 4 drv/5 rec	7.75	6.61	5.69
<b>808421</b>	MAX211EEAI	SSOP-28	±15kV ESD-protect, +5V RS-232 trans. 4 drv/5 rec	10.79	8.43	7.44
<b>808464</b>	MAX212CAG	SSOP-24	+3V powered, LP, true RS-232 trans.	6.79	6.19	5.64
<b>808544</b>	MAX214CPI	DIP-28	Prog. DTE/DCE, +5V dual RS-232 trans.	9.59	9.09	8.18
<b>808755</b>	MAX223EWI	SOIC-28	+5V powered multi chnl RS-232 4 drv/5 rec	9.59	7.31	6.43
<b>882293</b>	MAX232ECPE	DIP-16	±15kV ESD-protected, +5V RS-232 trans.	3.89	3.09	2.73
<b>808907</b>	MAX232EESA	SOIC-16	±15kV ESD-protected, +5V RS-232 trans.	5.05	3.98	3.52
<b>808991</b>	MAX234CPE	DIP-16	+5V powered multichnl RS-232 drv./rec. 4 drv.	5.49	4.35	3.83
<b>809011</b>	MAX238ENG	DIP-24	+5V powered multichnl RS-232 quad drv./rec.	★	Call	Call
<b>809037</b>	MAX238EWG	SOIC-24	+5V multi chnl RS-232 quad drv./rec.	8.45	6.77	5.89
<b>809053</b>	MAX239CNG	DIP-24	+5V multi chnl RS-232 3 drv/5 rec.	7.05	5.59	4.91

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## MAXIM RS-232 Drivers/Rec. (Cont.)

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
809070	MAX241CW	SOIC-28	+5V multi chnl RS-232 4 drv./5 rec. ....	\$7.05	\$5.59	\$4.91
809125	MAX242CPN	DIP-18	+5V multi chnl dual RS-232 drv./rec. ....	4.75	3.61	3.17
882517	MAX242EWN	SOIC-18	+5V multi chnl dual RS-232 drv./rec. ....	5.01	4.17	3.79
809248	MAX250EPD	DIP-14	+5V isolated dual RS-232 drv./rec. ....	8.59	7.83	7.12
809281	MAX251EPD	DIP-14	+5V isolated dual RS-232 drv./rec. ....	10.35	8.10	7.12
810361	MAX3093EES	SOIC-16	±15kV ESD-protect, 5V LP quad RS-422/RS-485 rec. ....	3.39	3.07	2.79
807744	MAX3209CEU	TSSOP-38	±15kV ESD protect, 12V dual RS-232 serial w/ LP standby ....	5.55	4.64	3.72
807859	MAX3223ECAP	SSOP-20	1µA cur., 120kbps, dual RS-232 trans. w/ autoshtdn ....	4.45	3.72	3.28
807912	MAX3223EAP	SSOP-20	1µA cur., 120kbps, dual RS-232 trans. w/ autoshtdn ....	6.40	5.33	4.68
807971	MAX3224CAP	SSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn ....	3.75	3.10	2.73
808018	MAX3224EAP	SSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn ....	5.55	5.17	4.84
808106	MAX3224EUP	TSSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn ....	6.19	5.76	5.40
808131	MAX3225CAP	SSOP-20	1µA cur., 1Mbps, dual RS-232 trans. w/ autoshtdn ....	3.99	3.20	2.73
883528	MAX3238EAI	SSOP-28	10mA, 250kbps, RS-232 trans. w/ autoshtdn ....	10.15	7.23	7.00
808456	MAX3241CAI	SSOP-28	LP, 120kbps, RS-232 trans., 4.0µF ext. cap. (STR50RX) ....	7.05	5.57	4.89



## RS-232 Drivers/Rec.

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
827569	MAX202CD	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD ....	\$7.79	\$7.72	\$6.68
827593	MAX202CDE4	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD ....	.79	.72	.68
827631	MAX2021DW	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD ....	.79	.72	.68
827657	MAX208CDBG4	SSOP-24	5V multichannel RS-232 line drv/rcv w/ ±15kV ESD ....	1.55	1.45	1.36
698576	MAX232N	DIP-16	Dual EIA-232 drivers/receivers ....	.89	.72	.55
698550	MAX232D	SOIC-16	Dual EIA-232 drivers/receivers ....	*	.339	.329
698568	MAX232DW	SOIC-16	Dual EIA-232 drivers/receivers ....	.87	.72	.58
903242	MAX2321DW	SOIC-16	Dual EIA-232 drivers/receivers ....	.55	.483	.455
903277	MAX2321N	DIP-16	Dual EIA-232 drivers/receivers ....	.55	.483	.455
829337	SN65C1406D	SOIC-16	Triple low-power drivers/receivers ....	2.59	2.41	2.27
758962	SN75C1406DW	SOIC-16	Triple low-power drivers/receivers ....	.75	.70	.66
828043	MC1488N	DIP-14	Quad line drivers ....	★	Call	Call
903525	MC1489AN	DIP-14	Quad line receivers ....	*	.181	.17
903541	MC1489N	DIP-14	Quad line receivers ....	*	.181	.17
698584	MAX3221CDB	SSOP-16	3-5.5V snl RS-232 line drv/rrec w/ ±15kV ESD ....	1.28	1.24	1.03
698592	MAX3221CPW	TSSOP-16	3-5.5V snl RS-232 line drv/rrec w/ ±15kV ESD ....	1.28	1.15	1.03
903306	MAX3221IDB	SSOP-16	3V-5.5V snl ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.29	1.20	1.13
698605	MAX3221IPW	TSSOP-16	3-5.5V snl RS-232 line drv/rrec w/ ±15kV ESD ....	1.39	1.18	.89
827745	MAX3222CDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.35	2.17	2.04
827770	MAX3222IPW	TSSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.35	2.17	2.04
827681	MAX3222CDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.25	2.05	1.93
827711	MAX3222CDW	SOIC-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.25	2.05	1.93
903331	MAX3222CPW	TSSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.25	2.05	1.93
827809	MAX3223CDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.85	1.69	1.59
903365	MAX3223CPW	TSSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.85	1.69	1.59
829353	SN65C323DW	SOIC-20	3V-5.5V multi ch RS-232 compatible line drv/rcv ....	2.09	1.93	1.82
829370	SN65C323DWG4	SOIC-20	3V-5.5V multi ch RS-232 compatible line drv/rcv ....	2.09	1.93	1.82
827833	MAX3223ECDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.09	1.93	1.82
827868	MAX3223EIDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	2.49	2.29	2.16
698613	MAX3232CD	SOIC-16	3-5.5V multich RS-232 line drv/rrec w/ ±15kV ESD ....	1.46	1.41	1.18
903390	MAX3232CDB	SSOP-16	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.55	1.45	1.36
698621	MAX3232CPW	TSSOP-16	3-5.5V multich RS-232 line drv/rrec w/ ±15kV ESD ....	1.39	1.29	1.15
698630	MAX3232IPW	TSSOP-16	3-5.5V multi ch RS-232 line drv/rrec w/ ±15kV ESD ....	1.59	1.40	1.14
829396	SN65C323D	SOIC-16	3V-5.5V multi ch RS-232 compatible line drv/rcv ....	1.85	1.69	1.59
909601	SN65C323PW	TSSOP-16	3V-5.5V multi ch RS-232 compatible line drv/rcv ....	1.85	1.69	1.59
820826	SN75C323D	SOIC-16	3V-5.5V multi ch RS-232 compatible line drv/rcv ....	1.85	1.69	1.59
827892	MAX3238CDB	SSOP-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.95	1.81	1.70

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## RS-232 Drivers/Rec. (Continued)

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
827930	MAX3238IDB	SSOP-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	\$2.25	\$2.05	\$1.93
698648	MAX3243CDB	SSOP-28	3V-5.5V multich RS-232 line drv/rrec w/ ±15kV ESD(HBM) ....	1.28	1.24	.80
827964	MAX3243IDB	SSOP-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.55	1.45	1.36
827999	MAX3243IDW	SOIC-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD ....	1.55	1.45	1.36
698656	MAX3243IPW	TSSOP-28	3-5.5V multich RS-232 line drv/rrec w/ ±15kV ESD(HBM) ....	1.39	1.30	1.16
820842	SN75C3243PW	TSSOP-28	3V-5.5V multichannel RS-232 line drv/rcv ....	2.35	2.17	2.04
820877	SN75C3243PWG4	TSSOP-28	3V-5.5V multichannel RS-232 line drv/rcv ....	2.35	2.17	2.04
820252	SN75107AD	SOIC-14	±5V, Dual line receivers ....	1.29	1.20	1.13
820287	SN75107AN	DIP-14	±5V, Dual line receivers ....	.75	.67	.63
758153	SN75107BN	DIP-14	Dual line receivers ....	*	.241	.227
820308	SN75107BDE4	SOIC-14	±5V, Dual line receivers ....	*	.241	.227
820341	SN75110AN	DIP-14	±5V, Dual line drivers ....	*	.29	.273
820367	SN75114D	SOIC-16	Dual differential line drivers ....	2.49	2.29	2.16
820391	SN75118N	DIP-16	Differential line receivers ....	4.69	4.35	4.09
820412	SN75121N	DIP-16	Dual line drivers ....	2.35	2.17	2.04
820447	SN75150P	DIP-8	±12V, Dual line drivers ....	*	.435	.409
820471	SN75154N	DIP-16	Quad line receiver (5V, alternate 12V) ....	*	.435	.409
820501	SN75154NE4	DIP-16	Quad line receiver (5V, alternate 12V) ....	*	.442	.413
758170	SN75155D	SOIC-8	±12V, Line driver & receiver ....	.75	.67	.63
758196	SN75155P	DIP-8	±12V, Line driver & receiver ....	.75	.67	.63
758217	SN75158P	DIP-8	Dual differential line driver ....	2.85	2.65	2.50
758233	SN75160BDW	SOIC-20	Gen. purpose octal interface bus trans ....	1.25	1.16	1.09
758250	SN75160BN	DIP-20	Gen. purpose octal interface bus trans ....	1.25	1.16	1.09
820551	SN75172DW	SOIC-20	Quad differential line driver ....	1.89	1.76	1.66
758268	SN75173D	SOIC-16	Quad differential line receivers w/ 3-st ....	1.15	1.03	.97
758276	SN75173N	DIP-16	Quad differential line receivers w/ 3-st ....	1.15	1.03	.97
758292	SN75175D	SOIC-16	Quad differential line receivers w/ 3-st ....	.55	.483	.455
758321	SN75175N	DIP-16	Quad differential line receivers w/ 3-st ....	.55	.483	.455
758348	SN75176AD	SOIC-8	Differential bus transceiver ....	*	.29	.273
758364	SN75176AP	DIP-8	Differential bus transceiver ....	*	.29	.273
758381	SN75176BD	SOIC-8	Differential bus transceiver ....	*	.29	.273
820615	SN75176BDG4	SOIC-8	Differential bus transceivers ....	★	Call	Call
820640	SN75182D	SOIC-14	Dual differential line receivers ....	1.29	1.20	1.13
758401	SN75188D	SOIC-14	±9V, Quad line drivers ....	*	.27	.252
758428	SN75188N	DIP-14	±9V, Quad line drivers ....	*	.27	.252
758997	SN75C188N	DIP-14	±12V, Quad low-power line drivers ....	*	.319	.298
820674	SN75189AD	SOIC-14	Quad line receivers ....	*	.27	.252
759017	SN75C189AD	SOIC-14	Quad low-power line receivers ....	*	.319	.298
758461	SN75189AN	DIP-14	Quad line receivers ....	*	.27	.252
759068	SN75C189AN	DIP-14	Quad low-power line receivers ....	*	.319	.298
758487	SN75189D	SOIC-14	Quad line receivers ....	*	.27	.252
758508	SN75189N	DIP-14	Quad line receivers ....	*	.27	.252
758946	SN75C1154DW	SOIC-20	Quad low-power drivers/receivers ....	1.09	1.01	.95
820586	SN751730D	SOIC-16	Triple line driver/receiver ....	2.35	2.17	2.04

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## RS-232 Drivers/Receivers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
142535	♣	HIN202CP	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps ....	\$2.65	\$2.10	\$1.57
244232	♣	MAX202CSE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps ....	1.55	1.25	.94
244241	♣	MAX202EPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps ....	1.99	1.76	1.53
244259	♣	MAX202ESE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps ....	1.29	1.10	.82
24811	♣	MAX232CPE	DIP-16	5V, 200kbps, multichannel ....	2.59	2.07	1.45
318959	MAX	MAX232CPE	DIP-16	5V, 200kbps, multichannel ....	2.89	1.77	1.33
106147	♣	MAX232CWE	SOIC-16	5V, 120kbps, multichannel ....	2.65	2.09	1.36

\* 10 pcs. in Linear series IC cabinet kit, pg 38 ♣ Jameco Value Offering MAX = Maxim Corporation

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## RS-232 Drivers/Receivers (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
256401	+	MAX232DR	SOIC-16	5V, 120kbps, dual driver/receiver .....	\$ .74	\$ .63	\$ .51
106155	+	MAX232EPE	DIP-16	5V, 120kbps, multichannel .....	3.59	2.66	2.27
106163	+	MAX233CPP	DIP-20	5V, 120kbps, multichannel .....	6.19	4.99	4.66
106171	+	MAX235CPG	DIP-24	5V, 120kbps, multichannel .....	13.39	10.62	7.15
106180	+	MAX238CNG	DIP-24	5V, 120kbps, multichannel .....	6.29	4.79	3.28
23157	+	DS1488N	DIP-14	15V, quad line driver .....	.35	.299	.202
16361	+	DS14C88N	DIP-14	5-12V, quad line driver .....	.78	.70	.66
23181	+	DS1489N	DIP-14	5V, quad line receiver .....	.23	.196	.147
16379	+	DS14C89N	DIP-14	5V, quad line receiver .....	1.00	.73	.55
252128	+	MAX3221CAE	SSOP-16	3-5.5V, 120kbps, auto shutdown .....	2.46	2.32	2.22
276859	+	MAX3232CDB	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected ..	1.25	1.15	1.03
276867	+	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected ..	3.39	2.89	2.35
235301	+	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver ..	2.99	2.30	1.74
23181	+	SN75189N	DIP-14	5V, quad line receiver .....	.23	.196	.147
25099	+	MC145406P	DIP-16	5-12V, EIA-232-DV.28 driver/receiver ..	1.95	1.75	1.59

\* 10 pcs. in Linear series IC cabinet kit, pg 38    + Jameco Value Offering

National Semiconductor

RS-422/485 Drvr/Rec.

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
832018	DS14185WM	SOIC-20	EIA/TIA-232 3 x 5 drv./rec. ....	\$1.53	\$1.14	\$ .95
832042	DS1487N/NOBP	DIP-8	LP RS-485 1/4 unit load multipoint trans. ....	2.22	1.67	1.39
832077	DS14C232CN/NOBP	SOIC-16	LP +5V powered TIA/EIA-232 dual drv./rec. ....	3.35	2.50	1.87
889399	DS14C232TM	SOIC-16	LP +5V powered TIA/EIA-232 dual drv./rec. ....	2.89	2.71	2.07
889436	DS14C335MSA	SOIC-28	+3.3V supply TIA/EIA-232 3 x 5 drv./rec. ....	7.85	6.22	4.98
832851	DS3691M/NOBP	SOIC-16	RS-422/RS-423 line drv. w/ 3-st. outputs .....	1.59	1.19	.99
832886	DS3691N/NOBP	DIP-16	RS-422/RS-423 line drv. w/ 3-st. outputs .....	1.35	1.10	.94
832915	DS3695AM/NOBP	SOIC-8	Multipoint RS-485/RS-422 trans. ....	1.42	1.05	.87
891026	DS3695N/NOBP	DIP-8	Multipoint RS-485/RS-422 trans. ....	1.07	.81	.75
832931	DS3696N/NOBP	DIP-8	Multipoint RS-485/RS-422 trans./rec. ....	2.45	1.81	1.35
891069	DS36C278TM	SOIC-8	LP multipoint EIA-RS-485 trans. ....	2.69	2.03	1.51
832966	DS36C278TN	DIP-8	LP multipoint EIA-RS-485 trans. ....	1.26	1.23	1.21
833029	DS485M/NOBP	SOIC-8	LP RS-485/RS-422 multipoint trans. ....	2.12	1.65	1.37
833053	DS485TM	SOIC-8	LP RS-485/RS-422 multipoint trans. ....	2.39	1.76	1.37
833088	DS751768M/NOBP	SOIC-8	Multipoint RS-485/RS-422 trans. ....	.78	.71	.65
891149	DS751768N	DIP-8	Multipoint RS-485/RS-422 trans. ....	1.65	1.20	.88
833176	DS751768TN	DIP-8	Multipoint RS-485/RS-422 trans. ....	1.65	1.20	.88
833299	DS8922AM/NOBP	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair ....	1.73	1.30	1.08
833328	DS8922M	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair ....	1.95	1.44	1.08
833344	DS8923AM/NOBP	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair ....	1.13	.94	.80
833361	DS8923AN/NOBP	DIP-16	3-st. RS-422 dual diff. line drv./rec. pair ....	2.13	1.58	1.31
892862	DS92LV1212AMSA	SSOP-28	16-40MHz 10-bit bus LVDS clock deserial w/ recov ..	7.99	7.49	7.37
892985	DS92LV1224TMSA	SSOP-28	30-66MHz 10-bit bus LVDS deserializer ....	7.79	7.59	7.37
833627	DS96174CN/NOBP	DIP-16	RS-485/RS-422 quad diff. line drivers .....	3.26	2.51	2.09
833651	DS96176CN/NOBP	DIP-8	RS-485/RS-422 diff. bus transceiver .....	1.52	1.26	1.15
833715	DS9638CM	SOIC-8	RS-422 dual high-speed diff. line drv. ....	1.55	1.12	.82

TEXAS INSTRUMENTS

RS-422/423/485

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
817029	AM26S10CN	DIP-16	Quad bus transceivers .....	\$1.15	\$1.06	\$1.00
892336	AM26C31CD	SOIC-16	Quad differential line driver .....	.55	.471	.444
892379	AM26C31ID	SOIC-16	Quad differential line driver (I-temp) ..	.55	.495	.466
816940	AM26C31IN	DIP-16	Quad differential line driver (I-temp) ..	.59	.443	.512
892416	AM26C31QD	SOIC-16	Quad differential line driver .....	3.45	3.16	2.98
892459	AM26C32CD	SOIC-16	Quad differential line receiver .....	.55	.507	.478
816974	AM26C32CN	DIP-16	Quad differential line receiver .....	.59	.531	.50
892491	AM26C32ID	SOIC-16	Quad differential line receiver (I-temp) ..	.55	.495	.466
892539	AM26C32IN	DIP-16	Quad differential line receiver (I-temp) ..	.59	.543	.512
892571	AM26C32QD	SOIC-16	Quad differential line receiver .....	2.85	2.31	2.26
892601	AM26LS31CD	SOIC-16	Quad differential line driver .....	* .41	.387	
892643	AM26LS32ACD	SOIC-16	Quad differential line receivers .....	* .41	.387	
892686	AM26LS33ACD	SOIC-16	Quad differential line receivers .....	* .41	.387	
892723	AM26LS33ACN	DIP-16	Quad differential line receivers .....	* .41	.387	
816991	AM26LV32INS	SOIC-16	Low-volt high-speed quad diff. line rec. (I-temp) ..	1.05	.96	.91
903576	MC3486N	DIP-16	Quad diff. line receiver w/ 3-st .....	* .362	.341	

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product    ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    [Details on page 1.](#)

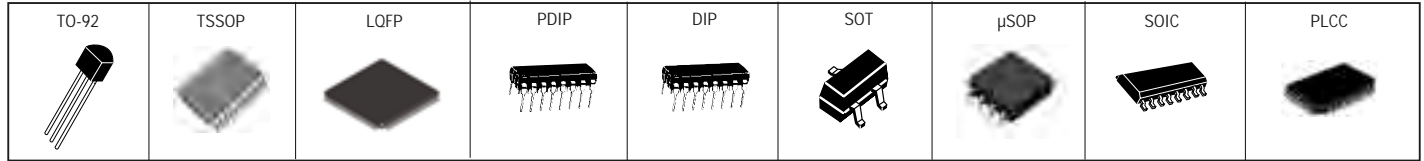
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## TEXAS INSTRUMENTS RS-422/423/485 (Cont.)

Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces	1	5	50
903605	MC3487N	DIP-16	Quad differential line driver .....	* .362	.341		
909441	SN65176BD	SOIC-8	Differential bus transceivers .....	* .362	.341		
909636	SN65HVD05D	SOIC-8	High-output RS-485 transceivers .....	3.95	3.67	3.46	
909661	SN65HVD06D	SOIC-8	High-output RS-485 transceivers .....	3.85	3.55	3.34	
909708	SN65HVD08D	SOIC-8	Wide supply range RS-485 transceiver .....	4.95	4.59	4.32	
909741	SN65HVD10D	SOIC-8	3.3V RS-485 transceivers .....	4.59	4.25	4.00	
909783	SN65HVD11D	SOIC-8	3.3V RS-485 transceivers .....	4.45	4.13	3.89	
909821	SN65HVD12D	SOIC-8	3.3V RS-485 transceivers .....	4.35	4.01	3.77	
909863	SN65HVD20D	SOIC-8	Extended common-mode RS-485 trans .....	4.29	3.98	3.75	
909901	SN65HVD231D	SOIC-8	3.3V CAN transceivers .....	3.55	3.26	3.07	
909943	SN65HVD232D	SOIC-8	3.3V CAN transceivers .....	3.39	3.14	2.96	
909986	SN65HVD233D	SOIC-8	3.3V CAN transceivers .....	3.89	3.62	3.41	
910012	SN65HVD24D	SOIC-8	Extended common-mode RS-485 trans .....	4.69	4.35	4.09	
829417	SN65HVC3085EDG	MSOP-8	Low-power RS-485 trans .....	2.99	2.75	2.59	
829441	SN65LBC172ADW	SOIC-20	Quad RS-485 differential line driver ..	5.05	4.68	4.41	
829468	SN65LBC173AN	DIP-16	Quad RS-485 differential line receiver ..	3.15	2.92	2.75	
910047	SN65LBC174A16DW	SOIC-16	Quad RS-485 differential line driver ..	5.25	4.88	4.59	
829484	SN65LBC174ADW	SOIC-20	Quad RS-485 differential line driver ..	5.25	4.88	4.59	
829505	SN65LBC174DW	SOIC-20	Quad low-power differential line driver ..	4.05	3.72	3.50	
829521	SN65LBC174N	DIP-16	Quad low-power differential line driver ..	4.05	3.72	3.50	
829548	SN65LBC175AD	SOIC-16	Quad RS-485 differential line receiver ..	2.95	2.73	2.57	
829564	SN65LBC175D	SOIC-16	Quad low-power differential line rec ..	2.29	2.12	2.00	
829581	SN65LBC175N	DIP-16	Quad low-power differential line rec ..	2.29	2.12	2.00	
829601	SN65LBC176P	DIP-8	Differential bus transceiver .....	1.89	1.76	1.66	
829628	SN65LBC176QD	SOIC-8	Differential bus transceiver .....	2.05	1.86	1.75	
829644	SN65LBC179AD	SOIC-8	Low-power diff. line driver/receiver ..	2.29	2.12	2.00	
910143	SN65LBC180AD	SOIC-14	Low-power diff. line driver/receiver ..	2.85	2.61	2.45	
829661	SN65LBC182D	SOIC-8	Differential bus transceiver .....	2.19	2.03	1.91	
910186	SN65LBC184D	SOIC-8	Diff. trans. w/ transient voltage suppression ..	3.39	3.14	2.96	
759092	SN75HVD10D	SOIC-8	3.3V RS-485 transceivers .....	2.99	2.71	2.47	
759113	SN75HVD12D	SOIC-8	3.3V RS-485 transceivers .....	3.45	3.21	3.02	
820893	SN75HVD3082EDG	MSOP-8	Low-power RS-485 transceiver .....	2.59	2.41	2.27	
820922	SN75LBC172DW	SOIC-20	Quad low-power differential line driver ..	3.45	3.21	3.02	
820957	SN75LBC174A16DW	SOIC-16	Quad RS-485 differential line driver ..	4.95	4.56	4.30	
820981	SN75LBC174ADW	SOIC-20	Quad RS-485 differential line driver ..	4.95	4.56	4.30	
821001	SN75LBC175AD	SOIC-16	Quad RS-485 differential line receiver ..	2.75	2.53	2.39	
821028	SN75LBC179P	DIP-8	Low-power diff. line driver/receiver ..	1.55	1.45	1.36	
821052	SN75LBC182D	SOIC-8	Differential bus transceiver .....	2.05	1.86	1.75	
759130	SN75LBC184D	SOIC-8	Diff. trans w/ transient voltage suppression ..	3.15	2.90	2.73	
820252	SN75107AD	SOIC-14	Dual line receiver .....	1.29	1.20	1.13	
820287	SN75107AN	DIP-14	Dual line receiver .....	.75	.67	.63	
820308	SN75107BDE4	SOIC-14	Dual line receiver .....	* .241	.227		
758153	SN75107BN	DIP-14	Dual line receiver .....	* .241	.227		
820341	SN75110AN	DIP-14	Dual line driver .....	* .29	.273		
820367	SN75114D	SOIC-16	Dual differential line driver .....	2.49	2.29	2.16	
820391	SN75118N	DIP-16	Differential line transceiver .....	4.69	4.35	4.09	
820412	SN75121N	DIP-16	Dual line driver .....	2.35	2.17	2.04	
758217	SN75158P	DIP-8	Dual differential line driver .....	2.85	2.65	2.50	
758233	SN75160BDW	SOIC-20	Octal general purpose interface bus trans ..	1.25	1.16	1.09	
758250	SN75160BN	DIP-20	Octal general purpose interface bus trans ..	1.25	1.16	1.09	
820551	SN75172DW	SOIC-20	Quad differential line driver .....	1.89	1.76	1.66	
820586	SN751730D	SOIC-16	Triple line driver/receiver .....	2.35	2.17	2.04	
758268	SN75173D	SOIC-16	Quad differential line receiver .....	1.15	1.03	.97	
758276	SN75173N	DIP-16	Quad differential line receiver .....	1.15	1.03	.97	
758292	SN75175D	SOIC-16	Quad differential line receiver .....	.55	.483	.455	
758321	SN75175N	DIP-16	Quad differential line receiver .....	.55	.483	.455	
758348	SN75176AD	SOIC-8	Differential bus transceiver .....	* .29	.273		
758364	SN75176AP	DIP-8	Differential bus transceiver .....	* .29	.273		
758381	SN75176BD	SOIC-8	Differential bus transceiver .....	* .29	.273		
820615	SN75176BDG4	SOIC-8	Differential bus transceiver .....	* Call	Call		
758760	SN75976A1DL	SSOP-56	9-channel differential transceiver ....	27.95	25.97	24.47	
764385	UA9637ACP	DIP-8	Dual differential line receiver .....	.54	.49	.45	
764406	UA9638CP	DIP-8	Dual high-speed differential line driver ..	* .295	.275		
830792	UA9639CP	DIP-8	Dual differential line receiver .....	.79	.72	.68	

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## RS-422/485 Drivers/Receivers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299807	+	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	\$1.35	\$1.17	\$ .91
276576	MAX	MAX490CPA	DIP-8	RS-485/422 LP transceiver, 12V	2.49	2.05	1.85
276550	MAX	MAX491CPD	DIP-14	RS-485/422 LP transceiver, 12V	2.65	2.25	1.69
311837	MAX	MAX1480BEP	DIP-28	RS-485/422 data interface, 5V	28.75	24.44	20.17
244195	+	MAX1487CPA	DIP-8	RS-485/422 LP transceiver, 12V	2.25	1.45	1.22
39571	+	AM26LS30	DIP-16	RS-422/423 line driver, 5V	2.39	2.05	1.76
39589	+	AM26LS31CN	DIP-16	RS-422 quad diff line driver, 5V	.62	.52	.42
39600	+	AM26LS32CN	DIP-16	RS-422/423 quad diff line receiver, 5V	.62	.53	.42
25232	+	MC3486P	DIP-16	RS-422/423 quad diff line receiver, 5V	.62	.527	.395
25259	+	MC3487P	DIP-16	RS-422/423 quad line driver, 5V	.62	.53	.40
144039	NSC	DS3695N	DIP-8	RS-422/423 multipoint transceiver, 5V	\$1.59	1.10	.94
299671	NSC	DS8921N	DIP-8	RS-422 diff line driver/receiver pair, 5V	.91	.79	.60
50956	TI	SN75175N	DIP-16	RS-422/423 quad diff line rec, 5V	.72	.56	.45
50964	+	SN75176BN	DIP-8	RS-422 diff line bus transceiver, 5V	.65	.55	.45
235408	NSC	DS96176CN	DIP-8	RS-485/422 diff bus driver, 5V	1.86	1.72	1.54

◆ Jameco Value Offering MAX = Maxim TI = Texas Instruments NSC = National Semiconductor

## National Semiconductor Interface Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
832106	DS14C88N/NOBP	DIP-14	Quad CMOS line driver	\$1.25	\$1.13	\$1.03
832165	DS14C89AN/NOBP	DIP-14	Quad CMOS line receiver	1.25	1.12	1.03
832288	DS26C31TM/NOBP	SOIC-16	CMOS quad 3-st. diff. line driver	.85	.70	.59
832317	DS26C31TM/NOBP	DIP-16	CMOS quad 3-st. diff. line driver	2.55	1.87	1.37
889962	DS26C32ATM/NOBP	SOIC-16	Quad diff. line receiver	2.05	1.53	1.11
832341	DS26C32ATM/NOBP	DIP-16	Quad differential line receiver	1.49	1.19	1.01
832376	DS26LS31CM/NOBP	SOIC-16	Quad high-speed diff. line driver	.79	.66	.57
832405	DS26LS31CM/NOBP	DIP-16	Quad high-speed diff. line driver	1.09	.92	.78
832448	DS26LS32ACM/NOBP	SOIC-16	Quad differential line receivers	1.53	1.12	.93
832472	DS26LS32ACM/NOBP	DIP-16	Quad differential line receivers	2.13	1.55	1.29
832510	DS26LS32CM/NOBP	SOIC-16	Quad differential line receivers	1.49	1.09	.80
832536	DS26LS32CN/NOBP	DIP-16	Quad differential line receivers	2.00	1.46	1.21
890218	DS26LV31TM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line drv	1.85	1.37	1.00
832561	DS26LV32ATM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line rcv	1.85	1.36	1.02
890349	DS3486M/NOBP	SOIC-16	Quad RS-422, RS-423 line receiver	1.39	1.02	.75
832595	DS3486M/NOBP	DIP-16	Quad RS-422, RS-423 line receiver	.99	.90	.83
832624	DS3487M/NOBP	SOIC-16	Quad 3-st. line driver	1.69	1.23	.89
832659	DS3487M/NOBP	DIP-16	Quad 3-st. line driver	1.19	1.49	.84
832712	DS34C86TM/NOBP	DIP-16	Quad CMOS diff. line receiver	2.18	1.60	1.33
832747	DS34C87TM/NOBP	SOIC-16	CMOS quad 3-st. diff line driver	.92	.84	.66
832763	DS34C87TM/NOBP	DIP-16	CMOS quad 3-st. diff. line driver	1.00	.83	.70
890710	DS34LV86TM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line rcv	2.49	1.85	1.43
890752	DS34LV87TM	SOIC-16	Enhanced CMOS quad diff. line drv	2.49	1.85	1.43
833205	DS8921AM/NOBP	SOIC-8	Diff. line driver & receiver pair	1.62	1.35	1.27
833230	DS8921ATM/NOBP	SOIC-8	Diff. line driver & receiver pair	★	Call	Call
833264	DS8921N/NOBP	DIP-8	Diff. line driver & receiver pair	.91	.83	.64
833395	DS89C21TM/NOBP	SOIC-8	Diff. CMOS line drv. & rcv. pair	1.55	1.17	.85
833686	DS9637ACM/NOBP	SOIC-8	Dual diff. line receiver	1.36	.99	.82

★ Please call or visit our website for minimum order quantity and pricing

## Atmel Interface Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
845476	AT43301-SC	SOIC-24	1UP/4DOWN stream USB hub controller	\$2.09	\$1.95	\$1.83
763260	AT43USB326-AU	LQFP-48	Multimedia USB kbrd cont w/ embedded hub	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

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Interface Series ICs visit our website at [www.Jameco.com](http://www.Jameco.com)

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## ON Semiconductor Interface Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
792386	MC1413BPG	PDIP-16	Hi-volt, hi-cur dar transistor arrays	★	Call	Call
870065	MC1413D	SOIC-16	Hi-volt, hi-cur dar transistor arrays	.62	.506	.384
792407	MC1413PG	PDIP-16	Hi-volt, hi-cur dar transistor arrays	.86	.81	.77

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## Interface Series

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
25216	NSC	MC3479P	DIP-16	7.2-16.5V, stepper motor driver	\$3.79	\$3.22	\$2.55
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.39	2.05	1.94
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	1.98	1.85	1.54
246625	NSC	LM3914V	PLCC-20	25V, dot/bar display driver	2.45	2.09	1.70
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver	2.63	1.94	1.43
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver	2.25	1.91	1.44
243379	+	MM5453N	DIP-40	3-10V, LCD driver	2.69	2.44	2.10
314691	+	ICL7136CPL	DIP-40	15V, 3 1/2 digit LCD driver	4.38	3.84	3.48
313437	+	ICM7218AU	DIP-28	5V, 8 digit LCD driver	4.25	4.05	3.85
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	8.95	6.95	4.65
313322	+	ICM7228AIP	DIP-28	5V, 8 digit LCD driver	4.35	3.62	3.44
241875	+	FAN8082	DIP-8	18V, bi-directional DC motor driver	.65	.50	.40
241867	+	FAN8200	DIP-14	18V, bi-directional step motor driver	.83	.81	.77
241824	+	MC14489BP	DIP-20	5V, 7-segment LED display driver	3.35	3.08	2.80
277940	+	SN75179BP	DIP-8	5V, diff line driver/receiver	.79	.65	.59
51027	+	SN75451AN	DIP-8	7V, dual peripheral AND driver	.34	.29	.22
277974	+	SN75183N	DIP-14	5V, dual diff line driver	1.10	1.01	.94
51131	+	SN75492P	DIP-14	5V, HEX digit driver	3.45	3.00	2.85

◆ Jameco Value Offering MAX = Maxim NSC = National Semiconductor

## Digital Interface ICs

Part No.	Product No.	Pkg.	Description	1	10	50
323969	EDEF7609	DIP-8	Serial stepper motor controller	\$11.99	\$11.39	\$10.49
323977	EDEF639P	DIP-8	Servo controller	9.55	8.58	7.72
323993	EDEF649P	DIP-8	Five pin output controller	\$8.95	7.65	6.96
171951	EDE702	DIP-18	Serial LCD interface	8.75	7.20	5.65
321710	EDE707	DIP-28	Octal 7-segment LED display decoder	8.99	7.65	6.75
321728	EDE747	DIP-20	7-segment decoder/driver	5.99	4.65	4.15
321701	EDE1188	DIP-28	8x8 matrix universal keypad encoder	8.89	7.65	6.30
171969	EDE1144	DIP-18	Keypad encoder	6.99	5.65	5.00
141532	EDE1200	DIP-18	Unipolar stepper motor controller	8.29	6.90	5.90
157526	EDE1204	DIP-18	Bipolar stepper motor controller	7.55	6.35	5.35
321736	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan	5.99	4.65	4.15
321744	EDE2108A	DIP-20	One-of-eight latch single channel	5.99	5.09	4.15
321752	EDE2108D	DIP-20	One-of-eight latch act/deact	5.99	5.09	3.82
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle	5.45	4.25	3.75
324005	EDE8744	DIP-28	16-key serial keypad and 2x40 LCD driver	13.89	11.81	8.86

## 5000 Series & Clock Chips

\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	50
32803	TCM5089N	DIP-16	Touch tone generator	\$5.25	\$4.75	\$4.05
26091	MM5321N	DIP-16	TV camera synchronous generator	4.75	4.31	3.91
26171	MM5450N	DIP-40	LED display driver	2.79	2.60	2.30
86799	LM555CM	SOIC-8	Timer	*	.16	.13
27422	LM555CN**	DIP-8	Timer	.29	.23	.20
126797	LM555CN*	DIP-8	CMOS timer	.66	.61	.55
24328	LM556N*	DIP-14	Dual timer	.82	.60	.45
25101	MC146818	DIP-24	Real time clock with RAM	9.95	8.94	6.71
698496	M48T86PC1	DIP-24	5V PC real-time clock	5.05	4.89	4.69
10567	AM9513APC	DIP-40	Real time clock	39.95	33.96	25.47

\* 10 pcs. in Linear series IC cabinet kit, pg 38 \*\* 20 pcs. in Linear series IC cabinet kit, pg 38

◆ Pull = Extra Savings ◆ Blue Part No. = Limited Quantity Available

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
779712	DS1000M-500	DIP-8	5-tap silicon delay line, 500ns	\$4.89	\$3.72	\$3.28
779739	DS1005M-100	DIP-8	5-tap silicon delay line, 100ns	3.85	3.63	3.45
779763	DS1010S-50	SOIC-16	10-tap silicon delay line, 5ns	6.89	6.53	6.20
779771	DS1013M-100	DIP-8	3-in-1 silicon delay line, 100ns	4.59	4.36	4.14
779827	DS1020S-25	SOIC-16	Prog. 8-bit silicon delay line, 0.25ns	32.15	31.20	30.26
779843	DS1021S-25	SOIC-16	Prog. 8-bit silicon delay line, 0.25ns	19.75	14.90	13.09
861687	DS1100LZ-20	SOIC-8	3.3V 5-tap economy timing element, 20ns	6.75	5.16	4.53
779923	DS1100M-150	DIP-8	5-tap economy timing element, 150ns	4.05	3.86	3.67
861741	DS1100Z-100	SOIC-8	5-tap economy timing element, 100ns	5.59	5.13	4.12
861783	DS1100Z-20	SOIC-8	5-tap economy timing element, 20ns	5.59	5.13	4.12
861804	DS1100Z-25	SOIC-8	5-tap economy timing element, 25ns	5.59	5.13	4.12
861821	DS1100Z-250	SOIC-8	5-tap economy timing element, 250ns	6.15	4.68	4.12
779958	DS1100Z-30	SOIC-8	5-tap economy timing element, 30ns	4.55	4.34	4.12
861855	DS1100Z-50	SOIC-8	5-tap economy timing element, 50ns	6.15	4.68	4.12
779991	DS1100Z-75	SOIC-8	5-tap economy timing element, 75ns	4.55	4.34	4.12
780035	DS1135Z-10	SOIC-8	3-in-1 high-speed silicon delay line, 10ns	5.49	5.21	4.95

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## Clock Chips

Part No.	Cross Ref.	Pkg.	Description	1	5	100
861100	CY7B9910-5SC	SOIC-24	5V low skew buffer, 15-80MHz, 500ps, C-temp	\$5.85	\$5.30	\$4.83
779000	CY7B9910-5SI	SOIC-24	5V low skew buffer, 15-80MHz, 500ps, I-temp	10.25	9.53	8.93
779018	CY7B9910-7SC	SOIC-24	5V low skew buffer, 15-80MHz, 750ps, C-temp	5.95	5.36	4.93
861134	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ hi-speed, LV prog skew, 500ps, C-temp	22.15	20.66	19.37
779026	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ hi-speed, LV prog skew buffer, 500ps, C-temp	22.15	20.66	19.37
778963	CY7B991-2JC	PLCC-32	5V prog skew buffer, 250ps, 15-80MHz, C-temp	16.29	14.66	12.99
861054	CY7B991-5JC	PLCC-32	5V prog skew buffer, 15-80MHz, C-temp	9.95	9.04	8.02
778971	CY7B991-5JI	PLCC-32	5V prog skew buffer, 500ps, 15-80MHz, I-temp	13.55	12.63	11.84
861071	CY7B991-7JC	PLCC-32	ROBOCLOCK™ prog skew buffer, 15-80MHz, 750ps, C-temp	8.85	8.03	7.12
861169	CY7B991V-2JC	PLCC-32	ROBOCLOCK™ LV prog. skew buffer, 250ps, C-temp	14.49	13.17	11.68
861193	CY7B991V-5JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 500ps, C-temp	7.39	6.89	6.46
861222	CY7B991V-5JI	PLCC-32	ROBOCLOCK™ LV prog skew buffer, I-temp	11.09	10.33	9.69
779034	CY7B991V-5JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 500ps, C-temp	6.25	5.69	5.17
779042	CY7B991V-5JI	PLCC-32	ROBOCLOCK™ LV prog skew buffer, I-temp	14.06	11.71	9.88
861257	CY7B991V-7JC	PLCC-32	ROBOCLOCK™ LV programmable skew buffer, 750ps, C-temp	5.75	5.41	5.51
779051	CY7B992-5JC	PLCC-32	5V prog skew clock buffer, 500ps, C-temp	5.55	5.02	4.57
779069	CY7B992-7JI	PLCC-32	5V prog skew clock buffer, 750ps, I-temp	20.05	18.67	17.50
779392	CY7B993V-5AC	TOFP-100	ROBOCLOCK™ hi-speed multiphase PLL buffer, 500ps, C-temp	31.29	30.39	29.52
779405	CY7B993V-5AI	TOFP-100	ROBOCLOCK™ hi-speed multiphase PLL buffer, 500ps, I-temp	54.15	50.51	47.35
779413	CY7B994V-2AC	TOFP-52	ROBOCLOCK™ hi-speed multiphase PLL buffer, 250ps, C-temp	37.05	34.55	32.39
779421	CY7B994V-2BBI	TBGA-100	ROBOCLOCK™ hi-speed multiphase PLL buffer, 250ps, I-temp	82.79	77.26	72.42
779430	CY7B994V-5BBC	TBGA-100	ROBOCLOCK™ hi-speed multiphase PLL buffer, 500ps, C-temp	58.55	54.64	51.22

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## Clock Chips

Part No.	Cross Ref.	Pkg.	Description	1	10	100
780609	DS1337C	SOIC-16	I2C serial real time, I-temp	\$2.65	\$2.42	\$2.21
780641	DS1339C-33	SOIC-16	I2C serial real time, I-temp	3	Call	Call
780676	DS1340Z-33	SOIC-8	I2C RTC with trickle charger, I-temp	★	2.40	2.00
780713	DS1388Z-33	SOIC-8	RTC/Supervisor w/ trickle charge & 512-bytes, I-temp	3.59	3.26	2.97
780721	DS1390U-33	μSOP-10	Low-voltage SPI/3-wire RTC w/ trickle charge, I-temp	★	Call	Call
780764	DS1501WE	TSOP-28	Y2K compliant watchdog real time, C-temp	11.69	8.64	7.86
780772	DS1501WEN	TSOP-28	Y2K compliant watchdog real time, I-temp	12.29	10.27	9.03
780781	DS1501WS	SOIC-28	Y2K compliant watchdog real time, C-temp	11.15	8.53	7.13
780810	DS1511Y	DIP-28	5V Y2K compliant watchdog real time, C-temp	16.39	14.92	13.56
780836	DS1554WP-120	EMOD-32	256k NV, Y2K compliant time keeping RAM, C-temp	23.39	21.25	19.32
780844	DS1558W-120	↑	1M NV, Y2K compliant time keeping RAM, C-temp	35.85	32.60	29.64
781054	DS1685E-3	TSOP-34	3V real time, C-temp	6.55	5.01	4.19
781100	DS1685S-5	SOIC-24	5V real time, C-temp	6.19	4.74	4.17
781134	DS1687-5	DIP-24	5V real time, C-temp	9.09	6.94	6.10
781151	DS1688S	SOIC-28	3V-5V serialized real time w/ NV RAM, C-temp	7.39	6.71	6.10
781177	DS1693	DIP-28	3V-5V serialized real time w/ NV RAM, C-temp	19.25	14.66	12.88
781329	DS1742W-120	DIP-24	3.3V Y2K NV time keeping RAM, C-temp	27.79	18.89	16.60
781337	DS1743-100	DIP-28	5V Y2K compliant NV time keeping RAM, C-temp	25.85	19.74	16.52
781370	DS1746-70	DIP-32	5V Y2K compliant NV time keeping RAM (128k x 8), C-temp	42.05	32.07	26.83
781388	DS1747W-120	↑	3.3V Y2K compliant NV time keeping RAM (512k x 8), C-temp	35.45	32.20	29.28

↑ POWERCAP-34 ★ Please call or visit our website for minimum order quantity and pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

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## EconoResets

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
780262	DS1233-5	TO-92	5V EconoReset	\$1.32	\$1.00	\$0.90
862508	DS1233-15	TO-92	5V EconoReset	1.19	.90	.81
862524	DS1233A-10	TO-92	3.3V EconoReset	1.24	1.07	.90
862541	DS1233AZ-10	SOT-223	3.3V EconoReset	2.09	1.64	1.47
780271	DS1233AZ-10	SOT-223	3.3V EconoReset	2.09	1.64	1.47
862567	DS1233AZ-15	SOT-223	3.3V EconoReset	2.15	1.73	1.57
862575	DS1233D-10	TO-92	5V EconoReset	1.29	1.05	.90
862680	DS1233DZ-5	SOT-223	5V EconoReset	2.15	1.64	1.47
862639	DS1233DZ-10	SOT-223	5V EconoReset	1.99	1.64	1.47
862655	DS1233DZ-15	SOT-223	5V EconoReset	2.15	1.73	1.57
780297	DS1233MS-5	SOIC-8	EconoReset	2.75	2.10	1.88
780289	DS1233M-55	TO-92	EconoReset	1.34	1.02	.90
862727	DS1233Z-5	SOT-223	5V EconoReset	2.15	1.64	1.47
862701	DS1233Z-10	SOT-223	5V EconoReset	2.29	1.75	1.57
865821	DS1833-5	TO-92	5V EconoReset	1.75	1.29	1.18
781548	DS1833-5	TO-92	5V EconoReset	1.75	1.31	1.18
781521	DS1833-10	TO-92	5V EconoReset	1.75	1.31	1.18
781530	DS1833-15	TO-92	5V EconoReset	1.29	1.24	1.18
781564	DS1833Z-5	SOT-223	5V EconoReset	3.25	2.49	2.18
781556	DS1833Z-10	SOT-223	5V EconoReset	3.05	2.33	2.05
865856	DS1834AS	SOIC-8	Dual EconoReset w/ pushbutton	2.35	1.78	1.57

## NXP/PHILIPS UART/DUARTs

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
856597	SC26C92A1A	PLCC-44	Dual asynch rec/transmitter DUART (I-temp)	\$10.45	\$9.95	\$9.47
918647	SC26C92C1A	PLCC-44	Dual asynch rec/transmitter DUART (C-temp)	6.25	5.68	5.17
856626	SC26C92C1B	POQF-44	Dual asynch rec/transmitter DUART (C-temp)	7.39	6.89	6.46
918663	SC28C94A1A	PLCC-52	Quad universal asynch rec/transmitter QUART	29.45	28.02	26.69
856749	SC28L91A1B	POQF-44	3.3V/5V universal asynch rec./trans. UART	9.39	8.95	8.53
918727	SC28L92A1A	PLCC-44	3.3V/5V dual universal asynch rec./trans. DUART	11.45	10.39	9.91
918751	SC28L92A1B	QFP-44	3.3V/5V dual universal asynch rec./trans. DUART	10.95	10.41	9.91
856651	SC28L194A1A	PLCC-68	Quad UART for 3.3V & 5V supply volt	23.75	22.61	21.53
918698	SC28L194A1B	LQFP-80	Quad UART for 3.3V & 5V supply volt	30.75	28.70	26.90
856677	SC28L198A1A	PLCC-84	Octal UART for 3.3V & 5V supply volt	39.85	37.97	36.16
856706	SC28L198A1B	LQFP-100	Octal UART for 3.3V & 5V supply volt	39.85	37.97	36.16
918786	SCC2691AC1D24	SOIC-24	Universal asynch rec./trans. UART	5.35	5.05	4.74
918815	SCC2692AC1A44	PLCC-44	Dual asynch rec./trans. DUART (C-temp)	6.65	6.33	6.03
856781	SCC2692AC1B44	POQF-44	Dual asynch rec./trans. DUART	9.25	8.61	8.07
918840	SCC2692AE1A44	PLCC-44	Dual asynch rec./trans. DUART (I-temp)	11.09	10.33	9.69
918874	SCC2698BC1A84	PLCC-84	Enhanced octal universal asynch rec./trans. UART	34.19	32.55	31.00
918903	SCC68681C1N40	DIP-40	Dual asynch rec./trans. DUART	7.39	6.89	6.46

## UARTs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158	6402	DIP-40	5V CMOS	\$7.50	\$6.42	\$5.99
27570	NS16C450N	DIP-40	Asynch. communication element, 5V	2.39	1.93	1.53
288770	TL16C452FN	PLCC-68	Asynch. communication element, 5V	4.45	3.25	2.69
27596	NS16550AN	DIP-40	Asynch. communication element, 5V	4.45	3.78	2.84
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	2.79	2.27	1.79
288841	TL16C554FN	PLCC-68	4-channel w/ 16-byte FIFO, 5V	9.89	9.39	8.93

♣ Pull = Extra Savings

## NXP/PHILIPS MUX/DEMUX

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
916932	HEF4051BPN	DIP-16	8-channel analog MUX/DEMUX	★	\$2.42	\$2.45
916967	HEF4051BTD	SOIC-16	8-channel analog MUX/DEMUX	★	Call	Call
916983	HEF4051BTD-1	SOIC-16	8-channel analog MUX/DEMUX	★	Call	Call
851286	HEF4052BTD	SOIC-16	Dual 4-channel analog MUX/DEMUX	★	.204	.348
917003	HEF4053BTD	SOIC-16	Triple 2-channel analog MUX/DEMUX	★	Call	Call

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## MAXIM Decoder/Drivers

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Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
804869	ICM7212AMIP	DIP-40	4-digit display decoder/driver		\$5.35	\$4.11	\$3.74
804885	ICM7217AIP	DIP-28	4-digit (LED) presettable up/down counter		13.05	9.91	9.01
804922	ICM7218BIP	DIP-28	8-digit LED display driver (CC)		11.49	8.39	7.63
881362	ICM7224IPL	DIP-40	4 1/2 digit LCD counter/decoder/driver		17.19	13.03	11.85
881397	ICM7555ISA	SOIC-8	General purpose timer		2.05	1.57	1.43
881418	ICM7556ISD	SOIC-14	General purpose timer		3.15	2.43	2.21

## Encoders/Decoders

Part No.	Cross Ref.	Pkg.	Description	1	10	100
123730	HT12E	DIP-18	Encoder, 2,4-12V	\$1.69	\$1.49	\$1.29
123748	HT12D	DIP-18	Decoder, 2,4-12V	1.69	1.49	1.29
243408	TP3054	DIP-16	U-law PCM CODEC & filter, 5V	2.94	2.31	2.08
296702	MC145026P	DIP-16	Encoder, 2.5-18V	1.74	1.17	1.13
296711	MC145027P	DIP-16	Decoder, 4,5-18V	2.95	2.65	2.40
1585047	HSDL-7001\$100	SOIC-16	IR 3/16 encoder/decoder (Avago)	3.73	3.48	3.26

## Stepper Motor Drivers/Controllers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
288067	L297/1	DIP-20	Stepper motor controller, 5V	\$5.19	\$4.99	\$4.46
245403	L298N	MW-15	Dual full-bridge driver, 46V	3.05	2.65	2.45
288091	L6202	DIP-18	DMOS full bridge driver, 48V	6.78	5.76	4.61
288104	L6203	MW-11	DMOS full bridge driver, 48V	9.05	8.75	8.25

## KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

### 146472: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)



175901

### 175901: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates

### 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Description	Package	1	10	50
146472	Motion control chipset for DC motors	DIP-28/18, 0.3"	\$34.99	\$32.99	\$29.99
175901	Motion control chip for stepper motors	DIP-28, 0.3"	25.45	22.75	20.55
323934	SC servo motion control IC	DIP-28, 0.3"	32.95	30.25	28.33

See pages 175-180 for our complete line of Motors.

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## MAXIM Analog Switches

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Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
809871	MAX307EW	SOIC-28	16-ch/dual 8-ch high-perf. CMOS analog MUX		\$19.49	\$14.78	\$13.43
807621	MAX318CSA	SOIC-8	SPST (NO) CMOS analog switch (C-temp)		3.59	2.67	2.43
882939	MAX319CSA	SOIC-8	SPDT (1 N/1 NO) CMOS analog switch (C-temp)		4.25	3.39	3.09
883624	MAX333ACPP	DIP-20	Quad SPDT CMOS analog switch		7.55	5.72	5.20
883632	MAX333ACWP	SOIC-20	Quad SPDT CMOS analog switch		9.65	7.39	6.72
883659	MAX333AEWP	SOIC-20	Quad SPDT CMOS analog switch (I-temp)		11.89	9.39	8.55
810249	MAX365CPE	DIP-16	Quad SPST (NO) analog switch (C-temp)		★	Call	Call
810521	MAX393CSE	SOIC-16	Quad SPST (2 NO/2 NC) analog switch (C-temp)		3.85	3.07	2.79
810960	MAX4053ACPE	DIP-16	Low-volt, CMOS analog MUX/switch		4.09	3.79	3.55
810986	MAX4053AESE	SOIC-16	Low-volt, CMOS analog MUX/switch (I-temp)		4.89	4.57	4.28
810994	MAX4066ACSD	SOIC-14	Low-volt, quad SPST CMOS analog switch		★	Call	Call
811006	MAX4066CSD	SOIC-14	Low-volt, quad SPST CMOS analog switch		2.15	1.97	1.85
812455	MAX4524EUB	µMAX-10	Low-volt, single supply MUX & switch (I-temp)		★	Call	Call
812551	MAX4543EUA	µMAX-8	Low-volt, single supply dual SPST (NONC) analog sw (I-temp)		★	Call	Call
812578	MAX4544CUA	µMAX-8	Low-volt, single supply dual SPDT analog switch		1.45	1.35	1.27
812738	MAX4601EAE	SSOP-16	2.5Ω quad SPST (NC) CMOS analog switch (I-temp)		★	Call	Call
812754	MAX4602CAE	SSOP-16	2.5Ω quad SPST (NO) CMOS analog switch		9.15	8.52	7.98
812818	MAX4619CUE	TSSOP-16	Hi-speed, low-volt, SPDT CMOS analog MUX/switch (C-temp)		★	Call	Call
812834	MAX4619EUE	TSSOP-16	Hi-speed, low-volt, SPDT CMOS analog MUX/switch (I-temp)		★	Call	Call
812851	MAX4622CPE	DIP-16	Dual 5Ω SPDT (2 NC/2 NO) analog switch (I-temp)		★	Call	Call
812877	MAX4622ESE	SOIC-16	Dual 5Ω SPDT (2 NC/2 NO) analog switch (C-temp)		5.59	4.13	3.76
812893	MAX4623CSE	SOIC-16	Dual 5Ω DPST (NO) analog switch (C-temp)		★	Call	Call
812981	MAX4641EUA	µMAX-8	Hi-speed, 4Ω dual SPST CMOS analog switch (I-temp)		1.85	1.42	1.30
813010	MAX4644EUA	µMAX-8	Hi-speed, 4Ω SPDT CMOS analog switch		1.45	1.37	1.30
813116	MAX4661CAE	SSOP-16	2.5Ω quad SPST (NC) CMOS analog switch		8.89	7.09	6.45
813204	MAX4665CSE	SOIC-16	5Ω quad SPST (NO) CMOS analog switch (C-temp)		6.79	6.31	5.92

## MAXIM A/D Converters

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Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
806653	MAX170DCPA	DIP-8	Serial output 5.6µs 12-bit ADC (±1LSB)		\$24.89	\$24.48	\$24.06
806696	MAX172BCNG	DIP-24	Complete 10µs CMOS 12-bit ADC (±1LSB)		27.89	21.23	19.31
807242	MAX186BEWP	SOIC-20	Low-power 8-ch serial 12-bit ADC (I-temp)		43.19	40.29	37.77
807269	MAX186CCPP	DIP-20	Low-power 8-ch serial 12-bit ADC (C-temp)		23.75	22.13	20.75
807285	MAX186CCWP	SOIC-20	Low-power 8-ch serial 12-bit ADC (C-temp)		20.79	18.89	17.00
807322	MAX187BCPA	DIP-8	5V low-power 12-bit serial ADC (±1LSB)		20.75	15.55	14.14
807349	MAX187BCWE	SOIC-16	5V low-power 12-bit serial ADC (±1LSB) C-temp		20.49	15.55	14.14
807576	MAX192BEPP	DIP-20	Low-power 8-ch serial 10-bit ADC (±1LSB) I-temp		20.45	19.08	17.89
805255	MAX1202BCAP	SSOP-20	5V 8-ch serial 12-bit ADC w/ 3V digital interface (±1LSB)		13.55	13.31	13.07
805423	MAX1241ACSA	SOIC-8	2.7V low-power 12-bit serial ADC (±1/2LSB) C-temp		15.19	11.06	10.06
805440	MAX1241AESA	SOIC-8	2.7V low-power 12-bit serial ADC (±1/2LSB) I-temp		18.19	13.25	12.06
805642	MAX1290ACE	QSOOP-28	400ksp/s, 5V, 8-ch 12-bit ADC w/ 2.5V ref. and parallel (±0.5LSB)		22.75	21.21	19.89
881240	ICL7109CPL	DIP-40	12-bit ADC w/ 3-st. binary outputs		12.25	9.32	8.48
804658	ICL7137CPL	DIP-40	Low-power 3 1/2 digit ADC		11.89	8.69	7.91
827913	MX7572JN05	DIP-24	Complete high-speed 12µs CMOS 12-bit ADC (±1LSB)		52.29	48.79	45.74

## TEXAS INSTRUMENTS A/D Converters

For more TI A/D Converters visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
761248	TLC549IP	DIP-8	8-bit ADC w/ serial control		\$2.75	\$2.53	\$2.39
823120	TLC0820ACDWP	SOIC-20	Adv. LINCOS high-speed 8-bit ADC		3.95	3.49	3.13
823162	TLC0820AIDWP	SOIC-20	Adv. LINCOS high-speed 8-bit ADC		4.25	3.40	3.36
823197	TLC0820AINDP	DIP-20	Adv. LINCOS high-speed 8-bit ADC		4.45	3.59	3.52
823218	TLC0838CDWP	SOIC-20	8-bit ADC w/ serial control		3.59	3.33	3.14

TEXAS INSTRUMENTS **A/D Converters (Cont.)**

Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
761029	TLC1541INP	Ⓜ DIP-20	10-bit ADC w/ serial control/11 inputs .....		\$7.09	\$6.69	\$6.29
823234	TLC1542INP	Ⓜ DIP-20	10-bit ADC w/ serial control/11 analog inputs		7.05	6.52	6.14
761555	TLV1543CDWP	Ⓜ SOIC-20	3.3V 10-bit ADC w/ serial control/11 analog inputs		5.35	4.93	4.64
761117	TLC2543DWP	Ⓜ SOIC-20	12-bit ADC w/ serial control/11 analog input ..		11.75	10.89	10.26
891923	ADS5500IPAP	Ⓜ PAP-64	14-bit, 125MSPS ADC .....		127.35	118.41	111.56
824501	TLC7135CN	DIP-28	4 1/2 digit precision ADC .....		4.85	4.47	4.21
892037	ADS7841EP	Ⓜ SSOP-16	12-bit, 4-channel serial output sampling ADC .....	★		Call	Call
892117	ADS7844N	SSOP-20	12-bit, 8-channel serial output sampling ADC ..		7.19	6.67	6.28
892221	ADS7846N	TSSOP-16	Touch screen controller .....		5.09	4.71	4.43
892264	ADS7870EAP	Ⓜ SSOP-28	12-bit, 52kSPS, data seq w/ ADC, MUX, PGA, & ref.		10.79	10.02	9.44

★ Please call or visit our website for minimum order quantity and pricing


















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## National Semiconductor A/D Converters

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Converters visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
828289	ADC0802LCVNP08	8-Pin DIP-20	8-bit $\mu$ P compatible A/D converter ( $\pm 1/2$ bit)	\$3.89	\$3.72	\$3.53
828318	ADC0802LCWMA	SOIC-20	8-bit $\mu$ P compatible ADC ( $\pm 1/2$ Bit) .....	5.89	4.72	3.78
886323	ADC0804LCWMM	DIP-20	8-bit $\mu$ P compatible ADC ( $\pm 1$ Bit) .....	2.15	1.86	1.42
828406	ADC0808CN0PB	DIP-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1/2$ LSB)	4.49	3.41	3.15
886340	ADC0808CCV	PLCC-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1/2$ LSB)	5.51	4.41	3.37
830944	ADC0809CVNP08	8-Pin DIP-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1$ LSB)...	2.99	2.25	2.08
831007	ADC0809CVNP08	8-Pin PLCC-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1$ LSB)...	3.45	3.26	3.10
831031	ADC0816CCN	DIP-40	8-bit $\mu$ P compatible ADC w/ 16-ch MUX ( $\pm 1/2$ Bit)	14.19	13.47	12.80
889006	ADC0820BCWMA	SOIC-20	8-bit high-speed $\mu$ P ADC, w/ track/hold ( $\pm 1/2$ LSB)	5.69	4.36	4.03
831066	ADC0820CCVNP08	DIP-20	8-bit high-speed $\mu$ P ADC, w/ track/hold ( $\pm 1/2$ LSB) ..	3.09	2.37	2.18
831138	ADC0820CCVMP08	SOIC-20	8-bit high-speed $\mu$ P ADC, w/ track/hold ( $\pm 1$ LSB)	2.45	2.19	1.97
831171	ADC0831CCVNP08	8-Pin DIP-8	8-bit serial I/O ADC w/ MUX (1 analog input)	1.75	1.54	1.32
831200	ADC0832CCVNP08	DIP-8	8-bit serial I/O ADC w/ MUX (2 analog input)	1.75	1.58	1.49
889057	ADC0834BCN	DIP-14	8-bit serial I/O ADC w/ MUX (4 analog input)	2.59	2.47	2.35
831234	ADC0838CVMP08	SOIC-20	8-bit serial I/O ADC w/ MUX (8 analog input)	2.79	2.51	2.26
889081	ADC0844CCN	DIP-20	8-bit $\mu$ P ADC w/ MUX options (4-ch, $\pm 1$ LSB) ..	5.09	3.89	3.60
889111	ADC0848CCV	PLCC-28	8-bit $\mu$ P ADC w/ MUX options (8-ch, $\pm 1$ LSB) ..	5.25	4.79	4.43
828377	ADC08062CWMMA	DIP-20	500ns ADC w/ S/H function & input MUX ....	4.25	3.37	3.04
831269	ADC08831M	SOIC-8	8-bit serial I/O CMOS ADC w/ MUX & sample/hold	2.24	1.83	1.40
831293	ADC08832IM	SOIC-8	8-bit serial I/O CMOS ADC w/ MUX & sample/hold	2.39	1.83	1.40
831411	ADC1061CIN	DIP-20	10-bit high-speed $\mu$ P ADC w/ track/hold .....	5.65	5.17	4.76
831322	ADC10154CWMMA	SOIC-24	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	5.39	4.97	4.55
831357	ADC10158CIN	DIP-28	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	5.39	4.96	4.55
831381	ADC10158CWMNP08	SOIC-28	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	4.89	3.70	3.41
831445	ADC10664CWMMA	SOIC-24	10-bit 360ns ADC w/ input MUX & sample/hold ..	5.99	4.60	4.26
831517	ADC11730CMTCNP08	TSSOP-24	Self-cal, 3V, 15MSPS, 33mW ADC .....	2.55	2.28	2.05
831541	ADC12138BCIN	DIP-28	8-bit converting 12-bit plus sign serial I/O ADC .....	6.39	5.91	5.43
889217	ADC78H90CINT	TSSOP-16	8-channel, 500KSPS, 12-bit ADC .....	5.25	4.76	4.26

## A/D & D/A Converters

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748	7106CPL 	DIP-40	A/D, 3 1/2-digit LCD/LED display, 9V .....	\$2.49	\$2.21	\$2.10
43756	7107CPL 	DIP-40	A/D, 3 1/2-digit LCD/LED display, ±5V .....	2.95	2.40	2.05
290263	ICL7135CPI 	DIP-28	A/D, 4 1/2-digit BCD output, 5V .....	5.55	4.53	3.83
10145	ADC0803LCN 	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	4.29	3.10	2.69
10153	ADC0804LCN 	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	1.99	1.75	1.39
10170	ADC0808CCN 	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	4.38	3.99	3.09
10188	ADC0809CCN 	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	3.06	2.68	2.07
10225	ADC0820CCN 	DIP-20	A/D, 8-bit, 5V, 1.5ps .....	2.58	2.39	1.96
116100	ADC0831CCN 	DIP-8	A/D, 8-bit, 5V, 32μs .....	1.79	1.63	1.48
296690	AD7226KCN 	DIP-20	D/A, 8-bit, 2-12.5V, 4μs, 4-channel .....	18.19	17.17	15.95
277165	MAX186BCPP 	DIP-20	A/D, 12-bit, 5V, 6μs, 8-channel .....	27.05	25.65	23.23
277069	MAX197BNCN 	DIP-28	A/D, 12-bit, 5V, 10Ksps, 8-channel .....	24.89	22.90	20.95
277131	MAX110BCPE 	DIP-16	A/D, 14-bit, 5V, 50sps, 2-channel .....	11.69	9.21	7.58
287363	AD7714AN 	DIP-24	A/D, 24-bit, 5V, 1-2.5MHz, 6-channel .....	17.95	17.22	16.95
115158	AD558BJN 	DIP-16	D/A, 8-bit, 5-15V, 1-5-3μs, 1-channel .....	12.59	11.99	11.29
14904	DAC0800LCN 	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.49	1.12	.83
14947	DAC0808LCN 	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.43	1.18	.75









♠ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. *Details on page 1.*

*Details on page 1.*

## A/D & D/A Converters (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
14963	DAC0830LCN 	DIP-20	D/A, 8-bit, 5-15V, 1µs .....	\$4.75	\$4.57	\$3.98
128186	DAC0832LCN 	DIP-20	D/A, 8-bit, 5-15V, 1µs .....	2.59	2.02	1.56
289861	TLC5628CDW 	SOIC-16	D/A, 8-bit, 5V, 1MHz, 8-channel .....	4.59	4.35	4.12
290976	TLV5628CN 	DIP-16	D/A, 8-bit, 3V, 1MHz, 8-channel .....	4.99	4.05	3.15
290052	TLCT7524CN 	DIP-16	D/A, 8-bit, 5-15V, 100ns .....	3.19	2.60	1.95
239425	TLCT5615 	DIP-8	D/A, 10-bit, 5V, 12µs, 1-channel .....	3.39	3.26	3.13
287347	AD767JN 	DIP-24	D/A, 12-bit, 12-15V, 4µs, 1-channel .....	18.75	18.65	18.38
239433	DAC712 	DIP-28	D/A, 16-bit, 12-15V, 6µs .....	18.35	17.96	17.60



## D/A Converters

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











Part No.	Cross Ref.	Pkg.	Description	1	10	100
814012	MAX500ACWE♣	SOIC-16	CMOS quad serial interface 8-bit DAC ( $\pm 1$ LSB) C-temp .....	★	Call	Call
814039	MAX500AEJE♣	DIP-16	CMOS quad serial interface 8-bit DAC ( $\pm 1$ LSB) I-temp .....	★	Call	Call
814178	MAX505ACAP♣	SSOP-24	Quad 8-bit DAC w/ rail-to-rail volt ( $\pm 1$ LSB) .....	★	Call	Call
814240	MAX506BCWP♣	SOIC-20	Quad 8-bit DAC w/ rail-to-rail volt ( $\pm 1/2$ LSB) ..	16.09	12.19	11.09
814320	MAX509BCWP♣	SOIC-20	Quad serial 8-bit DAC w/ rail-to-rail ( $\pm 1/2$ LSB) ..	14.09	10.69	9.72
814451	MAX512CSD♣	SOIC-14	Low-cost triple 8-bit Adc w/ serial int. (C-temp) ...	7.09	5.87	5.34
814717	MAX521BCW♣	SOIC-24	Dual/octal 2-wire ser 8-bit DAC w/ rail-to-rail ( $\pm 2$ LSB) .....	★	Call	Call
814768	MAX522CSA♣	SOIC-8	Quad 12-bit voltage-output serial DAC ....	6.15	4.72	4.29
884504	MAX526DCNG♣	DIP-24	Calibrated quad 12-bit DAC ( $\pm 1$ LSB) ..	49.25	45.96	43.09
884521	MAX526DCWG♣	SOIC-24	Calibrated quad 12-bit DAC ( $\pm 1$ LSB) ..	50.05	37.92	34.48
814952	MAX527DCWG♣	SOIC-24	Calibrated quad 12-bit DAC ( $\pm 1$ LSB) ..	30.65	30.01	29.36
815672	MAX541ACSA+R♣	SOIC-8	+5V serial-input 12-bit DAC ( $\pm 1$ LSB) ..	47.49	36.01	32.74
815867	MAX543BEJA♣	DIP-8	CMOS 12-bit serial input multiply DAC ( $\pm 1$ LSB) I-temp ..	27.15	25.32	23.74
814418	MAX5106EEE♣	QSOEP-16	Non-volatile quad 8-bit DAC (I-temp) ....	★	Call	Call
815146	MAX5312EAE♣	SSOP-16	$\pm 10$ V 12-bit serial DAC (I-temp) .....	★	Call	Call
815314	MAX5353AEUA♣	$\mu$ MAX-8	LP 12-bit DAC w/ serial interface ( $\pm 1$ LSB) I-temp ...	20.25	18.87	17.69
827972	MX7837JN♣	DIP-24	Complete dual 12-bit multiply DAC ( $\pm 1/2$ LSB) ..	23.69	22.09	20.70
828001	MX7837JR♣	SOIC-24	Complete dual 12-bit multiply DAC ( $\pm 1$ LSB) ..	23.69	22.09	20.70

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 TEXAS INSTRUMENTS

## D/A Converters

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Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
899870	DAC900E 	TSSOP-28	10-bit, 165MSPS DAC .....		\$10.39	\$9.64	\$9.08
761731	TLV5618ACD 	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ power down .....		10.55	9.78	9.22
826574	TLV5619CDW 	SOIC-20	2.7-5.5V 12-bit parallel DAC w/ power down .....		6.75	6.28	5.91
826603	TLV5620CN 	DIP-14	Quad 8-bit DAC .....		2.99	2.77	2.61
761774	TLV5636ID 	SOIC-8	2.7-5.5V LP 12-bit DAC w/ int. ref./power down .....		10.15	9.42	8.87
761791	TLV5638CD 	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ int. ref./power down .....		9.75	9.06	8.53
761811	TLV5638ID 	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ int. ref./power down .....		10.39	9.66	9.10
824536	TL7C7225CDW 	SOIC-24	Quad 8-bit DAC .....		5.79	5.38	5.07
761424	TL7C7226CDW 	SOIC-20	Quad 8-bit DAC .....		5.35	4.93	4.64
824561	TL7C7226CN 	DIP-20	Quad 8-bit DAC .....		5.59	5.17	4.87
824595	TL7C7226DW 	SOIC-20	Quad 8-bit DAC .....		5.69	5.29	4.98
899765	DAC7512N250 	SOT-23/6	LP, rail-to-rail output, 12-bit serial input DAC ...	★	Call	Call	Call
824624	TL7C7524EDG4 	SOIC-16	8-bit multiplying DAC .....		3.99	3.72	3.49
824659	TL7C7524IDW 	SOIC-16	8-bit multiplying DAC .....		3.85	3.55	3.34
824683	TL7C7528EDW 	SOIC-20	Dual 8-bit multiplying DAC .....		4.45	4.13	3.89
899802	DAC7612U 	SOIC-8	Dual 12-bit serial input DAC .....	★	Call	Call	Call
899845	DAC8571IDGK 	MSOP-8	16-bit, LP, voltage output, I2C interface DAC .....		7.69	7.12	6.71

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National  
Semiconductor

## D/A Converters

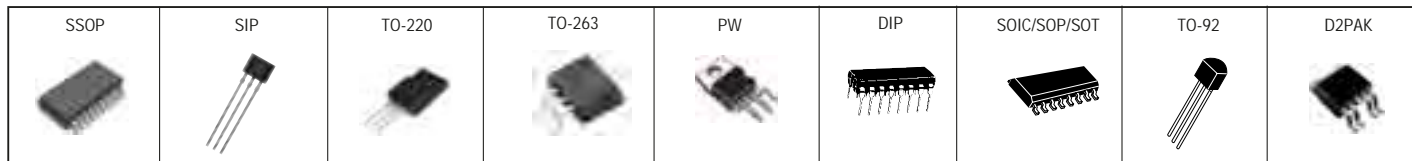
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Converters visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
<b>831824</b>	DAC0800LCLMNOPB 	SOIC-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18V$ , 33mW .....	<b>\$ .88</b>	<b>\$ .83</b>	<b>\$ .86</b>
<b>831859</b>	DAC0800LCLMNOPB 	DIP-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18V$ , 33mW .....	<b>.97</b>	<b>.74</b>	<b>.68</b>
<b>831883</b>	DAC0802LCLM 	SOIC-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18V$ , 33mW .....	<b>1.40</b>	<b>1.27</b>	<b>.92</b>
<b>831921</b>	DAC0808LCLM 	SOIC-16	8-bit, 150ns, $\pm 4.5$ to $\pm 18V$ , 33mW .....	<b>1.56</b>	<b>1.20</b>	<b>.92</b>
<b>831955</b>	DAC0808LCLMNOPB 	DIP-16	8-bit, 150ns, $\pm 4.5$ to $\pm 18V$ , 33mW .....	<b>1.08</b>	<b>1.01</b>	<b>.94</b>
<b>831980</b>	DAC0832LCLWM 	SOIC-20	8-bit $\mu P$ compatible, double buffered	<b>3.05</b>	<b>2.33</b>	<b>2.16</b>

# Power Management, DC to DC Converters and Controllers

Color Code Legend			
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## Power Management DC-DC Converters

Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
906671	PT5101A	SIP-3	5V 1A pos step-down int. switch reg. ....	\$19.15	\$17.76	\$16.73	
906718	PT5101C	SIP-3	5V 1A pos step-down int. switch reg. ....	19.15	17.76	16.73	
906751	PT5101N	SIP-3	5V 1A pos step-down int. switch reg. ....	19.15	17.76	16.73	
906785	PT6101N	SIP-12	5V 1A adj. pos. step-down int. switch reg. ....	19.65	18.24	17.19	
906814	PT6212P	SIP-12	5V 2A adj. pos. step-down int. switch reg. ....	27.55	25.61	24.13	
906857	PT6302G	SIP-12	5V 3A adj. pos. step-down int. switch reg. ....	32.25	29.96	28.23	
906890	PT6302N	SIP-12	5V 3A adj. pos. step-down int. switch reg. ....	30.95	28.75	27.09	
906937	PT6304N	SIP-12	12V 3A adj. pos. step-down int. switch reg. ....	30.95	28.75	27.09	
906970	PT6304R	SIP-12	12V 3A adj. pos. step-down int. switch reg. ....	32.25	29.96	28.23	
828908	PT6301C	SIP-12	11A, 12V input adj. int. switch reg. ....	32.15	31.16	30.22	
828924	PT6464A	SIP-12	14A, 5V input adj. int. switch reg. ....	45.65	42.41	39.95	
907016	PT78ST105H	SIP-3	5V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69	
907059	PT78ST105S	SIP-3	5V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69	
907091	PT78ST105V	SIP-3	5V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69	
907139	PT78ST112V	SIP-3	12V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69	
828941	PTB48540CAH	DIP-13	10W POE isolated power module assembly	67.59	62.83	59.19	
907171	PTH03000WAH	DIP-5	6A, 3.3V input non-isolated wide-output adj.	17.95	16.67	15.71	
907219	PTH03000WAS	DIP-5	6A, 3.3V input non-isolated wide-output adj.	17.95	16.67	15.71	
907251	PTH03010WAH	DIP-10	15A, 3.3V input non-isolated wide-output adj.	28.65	26.63	25.09	
907294	PTH03020WAH	DIP-10	22A, 3.3V input non-isolated wide-output adj.	37.05	34.43	32.44	
828967	PTH03020WAS	DIP-10	22A, 3.3V input non-isolated wide-output adj.	37.05	34.43	32.44	
907331	PTH03050WAH	DIP-6	6A, 3.3V input non-isolated wide-output adj.	17.05	15.85	14.93	
907374	PTH03050WAS	DIP-6	6A, 3.3V input non-isolated wide-output adj.	17.05	15.85	14.93	
828983	PTH03050YAS	DIP-6	6A non-isolated DDR/QDR memory bus term.	17.05	15.85	14.93	
907403	PTH03060WAH	DIP-10	10A, 3.3V input non-isolated step-down switch	24.19	22.49	21.19	
907446	PTH05000WAH	DIP-5	6A, 5V input non-isolated wide-output adj.	17.95	16.67	15.71	
907489	PTH05000WAS	DIP-5	6A, 5V input non-isolated wide-output adj.	17.95	16.67	15.71	
907526	PTH05010WAH	DIP-10	15A, 5V input non-isolated wide-output adj.	28.65	26.63	25.09	
907569	PTH05010WAS	DIP-10	15A, 5V input non-isolated wide-output adj.	28.65	26.63	25.09	
907606	PTH05020WAH	DIP-10	22A, 5V input non-isolated wide-output adj.	37.05	34.43	32.44	
907649	PTH05020WAS	DIP-10	22A, 5V input non-isolated wide-output adj.	37.05	34.43	32.44	
829003	PTH05030WAH	DIP-13	30A, 5V input non-isolated wide-output adj.	41.99	39.02	36.77	
829020	PTH05030WAS	DIP-13	30A, 5V input non-isolated wide-output adj.	41.99	39.02	36.77	
907681	PTH05050WAH	DIP-6	6A, 5V input non-isolated wide-output adj.	17.05	15.85	14.93	
907729	PTH05050WAS	DIP-6	6A, 5V input non-isolated wide-output adj.	17.05	15.85	14.93	
907761	PTH05060WAH	DIP-10	10A, 5V input non-isolated wide-output adj.	24.19	22.49	21.19	
907809	PTH05060WAS	DIP-10	10A, 5V input non-isolated wide-output adj.	24.19	22.49	21.19	
907841	PTH12000WAS	DIP-5	6A, 12V input non-isolated wide-output adj.	17.95	16.67	15.71	
907884	PTH12010WAH	DIP-10	12A, 12V input non-isolated wide-output adj. ....	★	Call	Call	
907921	PTH12010WAS	DIP-10	12A, 12V input non-isolated wide-output adj.	28.65	26.63	25.09	
907964	PTH12020WAH	DIP-10	18A, 12V input non-isolated wide-output adj.	37.05	34.43	32.44	
908001	PTH12020WAS	DIP-10	18A, 12V input non-isolated wide-output adj.	37.05	34.43	32.44	
829046	PTH12030WAH	DIP-13	26A, 12V input non-isolated wide-output adj.	41.99	39.02	36.77	
829062	PTH12050LAH	DIP-6	6A, 12V input non-isolated wide-output adj. ....	24.59	22.83	21.51	
908035	PTH12050WAH	DIP-6	6A, 12V input non-isolated wide-output adj. ....	★	Call	Call	
908078	PTH12050WAS	DIP-6	6A, 12V input non-isolated wide-output adj.	17.05	15.85	14.93	
908107	PTH12050WAZ	DIP-6	6A, 12V input non-isolated wide-output adj.	17.05	15.85	14.93	
908131	PTH12060WAH	DIP-10	10A, 12V input non-isolated wide-output adj.	24.19	22.49	21.19	
899917	DCP010505BP	DIP-7	Mini 1W unreg. DC/DC converter	13.95	12.92	12.18	
899950	DCP010505BP-U	SOP-7	Mini 1W unreg. DC/DC converter	13.95	12.92	12.18	
899992	DCP010512BP-U	SOP-7	Mini 1W unreg. DC/DC converter	13.95	12.92	12.18	
900033	DCP010512DBP	DIP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43	
900076	DCP010512DBP-U	SOP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43	
900113	DCP010515BP	DIP-7	Mini 1W isolated unreg. DC/DC conv.	13.95	12.92	12.18	
900156	DCP010515DBP	DIP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43	
900199	DCP010515DBP-U	SOP-7	Mini 1W isolated unreg. DC/DC conv.	13.95	12.92	12.18	
900236	DCP011515DBP	DIP-7	Mini 1W isolated unreg. DC/DC conv.	15.35	14.25	13.43	
900279	DCP020505P	DIP-7	Mini 2W isolated unreg. DC/DC conv.	18.09	16.79	15.82	
900308	DCP020505U	SOP-12	Mini 2W isolated unreg. DC/DC conv.	18.35	17.03	16.05	

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♻ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Power Management DC-DC Conv. (Cont.)

Part No.	Cross Ref.	Pkg.	Description	NEW	1	10	100
825846	DCP020507U	SOP-12	Mini 2W isolated unreg. DC/DC conv.	\$18.35	\$17.03	\$16.05	
900332	DCP020515DU	SOP-12	Mini 2W isolated unreg. DC/DC conv.	18.35	17.03	16.05	
900375	DCP022415DU	SOP-12	Mini 2W isolated unreg. DC/DC conv.	18.35	17.03	16.05	
900412	DCR010505P	DIP-10	Mini 1W isolated reg. DC/DC conv.	15.49	14.37	13.54	
900455	DCR010505U	SOP-12	Mini 1W isolated reg. DC/DC conv.	16.39	15.22	14.34	

## SMPS

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
813044	VIPER100A-E	PW-HV	SMPS Primary IC (700VDS, 3AIn)	★	Call	Call
813061	VIPER100ASP-E	PowerSO-10	SMPS Primary IC (700VDS, 3AIn)	★	Call	Call
813087	VIPER20-E	PW-HV	SMPS Primary IC (620VDS, 0.5AIn)	★	Call	Call
813108	VIPER50A-E	PW-HV	SMPS Primary IC (700VDS, 5AIn)	★	Call	Call
813124	VIPER53DIP-E	DIP-8	Off-line primary switch	★	Call	Call

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## MAXIM DC-DC Controllers

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
821247	MAX710ESE	SOIC-16	3.3V/5V step up/down DC-DC conv.	★	Call	Call
821271	MAX710ESE+	SOIC-16	3.3V/5V step up/down DC-DC conv.	7.09	5.49	4.95
822670	MAX763ACSA	SOIC-8	3.3V step-down curr mode PWN DC-DC conv.	5.19	4.82	4.52

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## MAXIM Voltage Detection/Converters

Part No.	Cross Ref.	Pkg.	Description	1	10	100
881266	ICL7660CSA	SOIC-8	Switched-capacitor volt conv (C-temp)	\$2.69	\$2.05	\$1.86
881282	ICL7660ESA	SOIC-8	Switched-capacitor volt conv (I-temp)	3.79	2.94	2.67
881320	ICL7662EBA	SOIC-8	CMOS voltage converter (I-temp)	4.39	3.37	3.07
881303	ICL7662CBD	SOIC-14	CMOS voltage converters (C-temp)	2.85	2.59	2.45
881338	ICL7665ACPA	DIP-8	µP volt monitor w/ dual over/undervolt detection	4.59	3.52	3.21
881354	ICL7665ACSA	SOIC-8	µP volt monitor w/ dual over/undervolt detection	5.05	3.99	3.54
804789	ICL7665AEP	DIP-8	µP volt monitor w/ dual over/undervolt detect (I-temp)	7.25	6.73	6.31
885726	MAX8211CPA	DIP-8	µP volt monitor w/ prog volt detection 3.25	2.46	2.24	
823859	MAX8211CEA	DIP-8	µP volt monitor w/ prog volt detection (I-temp)	★	Call	Call
885751	MAX8211ESA	SOIC-8	µP volt monitor w/ prog volt detection (I-temp)	5.15	3.77	3.43
885777	MAX8212CPA	DIP-8	µP volt monitor w/ prog volt detection 3.25	2.46	2.24	
823891	MAX8212CSA	SOIC-8	µP volt monitor w/ prog volt detection 2.85	2.16	1.97	

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## National Semiconductor Simple Switcher® Voltage Regulators

Part No.	Cross Ref.	Pkg.	Description	1	10	100
895457	LM2670S-ADJ	TO-263/7	Hi-eff. 3A step-down volt. reg. w/ sync	\$4.55	\$3.50	\$3.24
895473	LM2671M-5.0	SOIC-8	Pwr. conv. hi-eff 500mA step-down volt. reg.	3.19	2.44	2.26
895511	LM2672M-3.3	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	4.05	3.11	2.88
895570	LM2672M-5.0	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	4.05	3.11	2.88
895617	LM2672M-ADJ	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg.	4.05	3.11	2.88
895650	LM2673S-3.3	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895684	LM2673S-ADJ	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895721	LM2674M-3.3	SOIC-8	Pwr. conv. hi-eff. 500mA step-down volt. reg.	2.99	2.31	2.14
895772	LM2674M-5.0	SOIC-8	Pwr. conv. hi-eff. 500mA step-down volt. reg.	2.99	2.31	2.14
895810	LM2675M-3.0	SOIC-8	Pwr. conv. hi-eff. 1A step-down volt. reg.	3.89	2.98	2.76
895852	LM2675M-5.0	SOIC-8	Pwr. conv. hi-eff. 1A step-down volt. reg.	3.89	2.98	2.76
895895	LM2675M-ADJ	SOIC-8	Pwr. conv. hi-eff. 1A step-down volt. reg.	3.89	2.98	2.76
895932	LM2676S-12	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.33	3.09
896011	LM2676S-33NOPB	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.34	3.09
896054	LM2676S-5.0	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.33	3.09
896151	LM2676S-ADJNOPB	TO-263/7	Hi-eff. 3A step-down volt. reg.	4.35	3.34	3.09

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## Low-Dropout Voltage Regulators NEW

Part No.	Cross Ref.	Pkg.	Description	1	10	100
893312	LM1084IS-3.3	TO-263/3	5A 3.3V low-dropout pos reg (I-temp)	\$2.99	\$2.35	\$2.17
893355	LM1084IS-5.0	TO-263/3	5A 5V low-dropout pos reg (I-temp)	.. 3.05	2.35	2.17
835577	LM1084IS-ADJ/NOPB	TO-263/3	5A adj. low-dropout pos reg (I-temp)	2.70	2.49	2.11
835585	LM1084IT-3.3/NOPB	TO-220/3	5A 3.3V low-dropout pos reg (I-temp)	3.45	2.82	2.16
835593	LM1084IT-5.0	TO-220/3	5A 5V low-dropout pos reg (I-temp)	.. 2.85	2.42	2.16
835606	LM1085IS-3.3/NOPB	TO-263/3	3A 3.3V low-dropout pos reg (I-temp)	1.94	1.82	1.62
835614	LM1085IS-5.0/NOPB	TO-263/3	3A 5V low-dropout pos reg (I-temp)	.. 2.10	1.94	1.62
835622	LM1085IS-ADJ/NOPB	TO-263/3	3A adj. low-dropout pos reg (I-temp)	1.94	1.82	1.62
893486	LM1085IT-3.3	TO-220/3	3A 3.3V low-dropout pos reg (I-temp)	2.66	2.17	1.66
893523	LM1085IT-5.0	TO-220/3	3A 5V low-dropout pos reg (I-temp)	.. 2.87	2.17	1.66
893620	LM1085IT-ADJ/NOPB	TO-220/3	3A adj. low-dropout pos reg (I-temp)	2.10	1.90	1.61
836977	LM1086CS-3.3/NOPB	TO-263/3	1.5A 3.3V lowdrop-out pos reg (I-temp)	1.66	1.55	1.46
893742	LM1086CS-ADJ/NOPB	TO-263/3	1.5A adj. low-dropout pos reg (I-temp)	1.66	1.55	1.46
893785	LM1086CSX-3.3	TO-263/3	1.5A 3.3V low-dropout pos reg (I-temp)	.... *	Call	Call
835631	LM1086CT-ADJ/NOPB	TO-220/3	1.5A adj. low-dropout pos reg (C-temp)	1.62	1.52	1.30
835649	LM1086IS-3.3/NOPB	TO-263/3	1.5A 3.3V low-dropout pos reg (I-temp)	1.66	1.55	1.46
893865	LM1086IS-ADJ	TO-263/3	1.5A adj. low-dropout posreg (I-temp)	1.66	1.55	1.30
835657	LM1086IS-ADJ/NOPB	TO-263/3	1.5A adj. low-dropout pos reg (Itemp)	1.66	1.55	1.30
835665	LM1086IT-3.3	TO-220/3	1.5A 3.3V low-dropout pos reg (I-temp)	2.16	1.76	1.35
835673	LM1086IT-5.0/NOPB	TO-220/3	1.5A 5V low-dropout pos reg (I-temp)	1.19	1.08	.97

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## Low Drop-Out Volt. Reg.

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Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
700470	TPS78601KTTT	TO-263/5	Ultralow-noise, fast, RF, 1.5A LDO linear reg.	★	Call	Call
700488	TPS78625DCQ	SOT-223	Ultralow-noise, high-PSRR, 1.5A LDO linear reg.	2.69	2.62	2.54
700496	TPS78625KTTT	TO-263/5	Ultralow-noise, high-PSRR, 1.5A LDO linear reg.	★	Call	Call
700517	TPS79201DBVT	SOT-23	Ultralow-noise, high-PSRR, 100mA LDO linear reg.	.... *	Call	Call
700533	TPS79501DCQ	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg.	2.09	2.03	1.98
700541	TPS79518DCQ	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg.	.... *	Call	Call
700550	TPS79525DCQ	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg.	2.09	2.03	1.98
700568	TPS79533DCQ	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg.	.... *	Call	Call
700576	TPS79601DCQ	SOT-223	Ultralow-noise, high-PSRR, 1A LDO linear reg.	2.19	2.13	2.07
700584	TPS79601KTTT	TO-263/5	Ultralow-noise, high-PSRR, 1A LDO linear reg.	.... *	Call	Call
700592	TPS79633DCQ	SOT-223	Ultralow-noise, high-PSRR, 1A LDO linear reg.	2.19	2.13	2.07

★ Please call or visit our website for minimum order quantity and pricing

## Low Drop-Out Voltage Regulators

Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1	10	100
299743	◆	LM1084IT-ADJ	TO-220	5A low drop out adj. pos. volt. reg.	\$1.99	\$1.52	\$1.13
299735	◆	LM1084IT-3.3	TO-220	5A low drop out 3.3V pos. volt. reg.	2.95	2.51	1.88
282757	◆	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed	.. 1.34	1.21	.91
302455	◆	LM1085IT-ADJ	TO-220	3A low drop out adj. pos. volt. reg.	.. 2.95	2.19	1.62
192305	◆	LM1086CT-3.3	TO-220/3	1.5A low dropout positive reg. (3.3V)	... 1.09	.81	.60
192313	◆	LM1086CT-5.0	TO-220/3	1.5A low dropout positive reg. (5V)	.. 1.49	1.27	.95
251782	◆	LM1117MPX-ADJ	SOT-223/3	800mA low drop out linear regulator	.. .46	.44	.396
242114	◆	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO voltage reg.	..... .66	.63	.57
243539	◆	LM1117T-ADJ	TO-220/3	800mA, adj., LDO voltage reg.	..... 1.53	1.30	.98
314326	ANA	AP1184KSL	TO-263/5	4A ultra LDO adj. reg.	..... 5.29	3.69	3.29
244152	◆	LT1587CT-3.3	TO-220/3	3A, 3.3V, LDO voltage reg.	..... 1.86	1.42	1.07
297810	NSC	LM2937ET-5.0	TO-220	5V 500mA LDO regulator	..... 1.47	1.35	1.11
192495	◆	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin)	..... 1.02	.87	.66
107182	◆	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin)	..... 1.39	1.05	.77
121064	◆	LM2941CT	TO-220/5	1A LDO adjustable reg. (45Vin)	..... 1.19	.99	.76
693804	NSC	LM2941CT-LB03	TO-220/5	1A LDO adjustable reg. (45Vin)	..... .99	.88	.71
266757	◆	LP2950CZ-5.0	TO-92	100mA low pwr. LDO volt. reg.	..... .79	.59	.44
192524	◆	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V	..... 1.95	1.46	1.09

◆ Jameco Value Offering ANA = Anachip NSC = National Semiconductor

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◆ RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

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## ON Semiconductor® Voltage Regulators

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				* Minimum order 10 pieces			
Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100	
875991	MC7805ABD2T	D2PAK	5V, 1A pos. volt reg., I-temp	..... \$1.53	\$1.481	\$1.438	
876037	MC7805ACD2TG	D2PAK	5V, 1A pos. volt reg., C-temp	..... .78	.71	.65	
797267	MC7805ACTG	TO-220/3	5V, 1A pos. volt reg., C-temp	..... .45	.375	.348	
876070	MC7805BD2T	D2PAK	5V, 1A pos. volt reg., I-temp	..... .95	.81	.63	
876125	MC7805BTG	TO-220/3	5V, 1A pos. volt reg., I-temp	..... .31	.255	.236	
797283	MC7805CD2TG	D2PAK	5V, 1A pos. volt reg., C-temp	..... .39	.342	.293	
876248	MC7805CTG	TO-220/3	5V, 1A pos. volt reg., C-temp	..... .32	.272	.256	
797304	MC7806ACT	TO-220/3	6V, 1A pos. volt reg., C-temp	..... .47	.437	.323	
797347	MC7806BTG	TO-220/3	6V, 1A pos. volt reg., I-temp	..... .29	.253	.216	
876281	MC7808ACT	TO-220/3	8V, 1A pos. volt reg., C-temp	..... .47	.433	.392	
876310	MC7808BT	TO-220/3	8V, 1A pos. volt reg., I-temp	..... .47	.437	.392	
797363	MC7808CD2T	D2PAK	8V, 1A pos. volt reg., C-temp	..... .41	.372	.338	
797380	MC7808CTG	TO-220/3	8V, 1A pos. volt reg., C-temp	..... .33	.268	.248	
876352	MC7809CT	TO-220/3	9V, 1A pos. volt reg., C-temp	..... .45	.411	.372	
797419	MC7812ACD2TG	D2PAK	12V, 1A pos. volt reg., C-temp	..... .43	.36	.328	
797435	MC7812ACTG	TO-220/3	12V, 1A pos. volt reg., C-temp	..... .31	.254	.235	
876408	MC7812CD2T	D2PAK	12V, 1A pos. volt reg., C-temp	..... .87	.70	.534	
876441	MC7812CTG	TO-220/3	12V, 1A pos. volt reg., C-temp	..... .35	.287	.267	
797451	MC7815ACTG	TO-220/3	15V, 1A pos. volt reg., C-temp	..... .31	.255	.236	
876547	MC7815CTG	TO-220/3	15V, 1A pos. volt reg., C-temp	..... .35	.291	.254	
876563	MC7818CT	TO-220/3	18V, 1A pos. volt reg., C-temp	..... .40	.349	.284	
797494	MC7824BT	TO-220/3	24V, 1A pos. volt reg., I-temp	..... .47	.352	.293	
876643	MC78L05ABP	TO-92/3	5V, 100mA pos. volt reg., I-temp	..... .40	.369	.333	
797507	MC78L05ACDG	SOIC-8	5V, 100mA pos. volt reg., C-temp	..... .40	.369	.333	
876715	MC78L05ACP	TO-92/3	5V, 100mA pos. volt reg., C-temp	..... .37	.33	.235	
876791	MC78L08ACPG	TO-92/3	8V, 100mA pos. volt reg., C-temp	..... .38	.317	.23	
876811	MC78L09ACD	SOIC-8	9V, 100mA pos. volt reg., C-temp	..... *	.154	.144	
797515	MC78L12ABDG	SOIC-8	12V, 100mA pos. volt reg., I-temp	..... .43	.39	.353	
797558	MC78L15ABDG	SOIC-8	15V, 100mA pos. volt reg., I-temp	..... *	.15	.13	
876918	MC78L15ACD	SOIC-8	15V, 100mA pos. volt reg., C-temp	..... .37	.34	.304	
876942	MC78L15ACP	TO-92/3	15V, 100mA pos. volt reg., C-temp	..... .27	.195	.162	
797566	MC78M05CTG	TO-220/3	5V, 500mA pos. volt reg., C-temp	..... .53	.498	.39	
797582	MC78M06CT	TO-220/3	6V, 500mA pos. volt reg., C-temp	..... .40	.30	.25	
877005	MC78M08CT	TO-220/3	8V, 500mA pos. volt reg., C-temp	..... .53	.446	.323	
797620	MC78M12BT	TO-220/3	12V, 500mA pos. volt reg., I-temp	..... .59	.442	.334	
797646	MC78M12CTG	TO-220/3	12V, 500mA pos. volt reg., C-temp	..... *	.257	.241	
797697	MC78M15BTG	TO-220/3	15V, 500mA pos. volt reg., I-temp	..... .59	.541	.49	
797718	MC78M15CTG	TO-220/3	15V, 500mA pos. volt reg., C-temp	..... .37	.301	.265	
797751	MC78M20CTG	TO-220/3	20V, 500mA pos. volt reg., C-temp	..... .26	.227	.193	
877064	MC78M24CT	TO-220/3	24V, 500mA pos. volt reg., C-temp	..... .53	.321	.278	
797777	MC7905.2CTG	TO-220/3	-5.2V, 1A neg. volt reg., C-temp	..... .55	.498	.453	
797814	MC7905ACTG	TO-220/3	-5V, 1A neg. volt reg., C-temp	..... .47	.433	.392	
877136	MC7905BT	TO-220/3	-5V, 1A neg. volt reg., I-temp	..... .28	.252	.229	
877179	MC7905CTG	TO-220/3	-5V, 1A neg. volt reg., C-temp	..... .45	.375	.307	
877208	MC7906CT	TO-220/3	-6V, 1A neg. volt reg., C-temp	..... .40	.30	.25	
877216	MC7908CT	TO-220/3	-8V, 1A neg. volt reg., C-temp	..... .40	.338	.25	
797857	MC7912BTG	TO-220/3	-12V, 1A neg. volt reg., I-temp	..... *	.433	.392	
877275	MC7912CTG	TO-220/3	-12V, 1A neg. volt reg., C-temp	..... .45	.387	.358	
797873	MC7915ACTG	TO-220/3	-15V, 1A neg. volt reg., C-temp	..... .32	.275	.254	
877312	MC7915BT	TO-220/3	-15V, 1A neg. volt reg., I-temp	..... .28	.252	.229	
797890	MC7915CTG	TO-220/3	-15V, 1A neg. volt reg., C-temp	..... .35	.287	.268	
797911	MC7924CT	TO-220/3	-24V, 1A neg. volt reg., C-temp	..... .45	.383	.332	
877371	MC79L05ACDG	SOIC-8	-5V 100mA, neg. volt reg., C-temp	..... .38	.12	.10	
877451	MC79L05ACPG	TO-92/3	-5V, 100mA neg. volt reg., C-temp	..... .33	.272	.235	
877478	MC79L12ABD	SOIC-8	-12V, 100mA neg. volt reg., I-temp	..... *	.188	.166	
797945	MC79L15ACDG	SOIC-8	-15V, 100mA neg. volt reg., C-temp	..... *	.133	.125	
877558	MC79M05CT	TO-220/3	-5V, 500mA neg. volt reg., C-temp	..... .37	.30	.25	
877574	MC79M12CT	TO-220/3	-12V, 500mA neg. volt reg., C-temp	..... .40	.30	.25	
797961	MC79M15CTG	TO-220/3	-15V, 500mA neg. volt reg., C-temp	..... .26	.223	.186	

# Voltage Regulators, PLLs & Audio Amps

Color Code Legend			
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TSSOP	SSOP	TO-220	DIP	SOIC	TO-263	TO-5	TO-3	TO-92

## Voltage Regulators

* Minimum order 10 pieces					
Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1 10 100
23499	+	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C)	\$4.99 \$4.24 \$3.18
192268	+	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V)	1.75 1.25 .95
192276	+	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V)	1.99 1.77 1.31
23544	+	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	2.10 1.91 1.77
23552	+	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.28 .264 .224
23579	+	LM317T	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45 .39 .34
23667	+	LM323K	TO-3/2	5V 3A positive regulator	2.89 2.75 2.29
23798	+	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	4.69 3.62 2.71
296841	+	LM337LZ	TO-92	3-terminal adj. neg. voltage reg.	.79 .59 .43
23819	+	LM337T	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.59 .55 .44
23835	+	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	5.69 4.47 3.74
192284	+	LM338T	TO-220/3	5A adjustable regulator	2.39 1.78 1.19
23931	+	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	4.75 4.25 3.19
23940	+	LM350T	TO-220/3	3 amp. adj. power regulator	1.09 .89 .69
278248	+	TL431AILP	TO-92	Adjustable precision shunt regulator	.41 .34 .252
24467	+	LM723CN	DIP-14	Voltage regulator (2V-37V)	.34 .31 .30
301719	+	LM723H	TO-5	2V - 37V, 150mA adj. voltage reg.	3.69 2.83 2.12
298071	+	MAX755CSA	SOIC-8	-5V/adj., neg. output, invert. curr. mode PWM reg.	3.55 3.35 3.20
156566	NSC	LM2574N-5	DIP-8	Step-down 5-voltage regulator	1.86 1.52 1.16
279638	NSC	LM2575HVT-5.0	TO-220	Switcher 1A step down V-reg., high Vin range	3.95 3.74 3.52
693177	NSC	LM2575HVT-5.0	TO-220/5	Switcher 1A step down V-reg., high Vin range	3.95 3.35 3.15
192399	+	LM2576HVT-12	TO-220/5	Switcher 3A step down V-reg., high Vin range	4.85 4.13 3.71
192372	NSC	LM2576HVT-ADJ	TO-220/5	Switcher 3A step down V-reg., high Vin range	5.09 3.93 2.95
245569	NSC	LM2576T-5.0	TO-220/5	Simple switcher 3A step down volt. reg.	2.05 1.87 1.40
120977	NSC	LM2576T-ADJ	TO-220/5	Simple switcher 3A step down volt. reg.	1.69 1.37 1.05
300919	NSC	LM2586T-ADJ	TO-220	Simple switcher 3A flyback reg. w/ shutdown	5.45 5.15 5.06
310391	NSC	LM2596S-5.0	TO-263/5	Simple switcher 3A step-down voltage reg.	4.15 3.22 2.90
290888	NSC	LM2674M-ADJ	SOIC-8	Adj. voltage hi efficiency switcher	2.85 2.35 2.20
245649	NSC	LM2936MP-3.3	SOT-223	Ultra-low quiescent current 3.3V reg.	2.59 2.20 2.01
107166	NSC	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.85 1.68 1.18
51246	+	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	5.15 3.95 2.95
51262	+	7805T	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	.35 .32 .28
51182	+	7815CZ	TO-92	5V 100mA pos. voltage regulator	.29 .26 .25
193754	+	78L05ACM	SOIC-8	5V 100mA pos. voltage regulator	.22 .21 .19
192233	+	78M05	TO-220/3	5V 500mA pos. voltage regulator	.22 .19 .17
51297	+	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.30 .25 .21
51300	+	7808CT	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	.56 .42 .316
192225	+	78L09ACZ	TO-92	9V 100mA pos. voltage regulator	.20 .173 .13
51318	+	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	2.19 1.79 1.59
51334	+	7812T	TO-220/3	12V 1A pos. voltage reg. (LM340T-12)	.35 .32 .24
51203	+	78L12CZ	TO-92	12V 100mA pos. voltage regulator	* .118 .14
192241	+	78M12CT	TO-220/3	12V 500mA pos. voltage regulator	.22 .20 .18
51369	+	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	1.43 1.22 .92
51377	+	7815T	TO-220/3	15V 1A pos. voltage reg. (LM340T-15)	.28 .25 .22
192250	+	78M15CT	TO-220/3	15V 500mA pos. voltage regulator	.32 .27 .21
194634	+	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18)	.54 .42 .312
51414	+	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24)	.44 .39 .31
51238	+	78S40CN	DIP-16	1.25V-40V 1.5A switching regulator	1.35 1.08 .87
51457	+	7905T	TO-220/3	-5V 1A pos. voltage reg. (LM320T-5)	.42 .38 .36
51422	+	79L05ACP	TO-92	-5V 100mA neg. voltage regulator	.30 .264 .198
51481	+	7912CT	TO-220/3	-12V 1A neg. voltage reg. (LM320T-12)	.31 .27 .21
51431	+	79L12CZ	TO-92	-12V 100mA neg. voltage regulator	.23 .21 .16
51502	+	7915CT	TO-220/3	-15V 1A neg. voltage reg. (LM320T-15)	.32 .27 .22
194749	+	79L15ACZ	TO-92	-15V 100mA neg. voltage regulator	.41 .349 .262
193818	+	79L15ACM	SOIC-8	-15V 100mA neg. voltage regulator	* .114 .103
316945	+	MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg.	.66 .56 .421

\*10 pieces included in Linear kit, pg 38 \*\*20 pcs. included in Linear kit, pg 38 Blue Part No. = Limited Quantity Available

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♣ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## PLLs

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
843180	LMX23061MNOB	TSSOP-16	Low power freq. syn. for RF personal comm	\$2.45	\$1.86	\$1.66
904456	LMX2316TM	TSSOP-16	Low power freq. syn. for RF personal comm	2.49	1.90	1.69
843219	LMX23261MNOB	TSSOP-16	Low power freq. syn. for RF personal comm	2.95	2.23	2.21
843251	LMX2330LTM	TSSOP-20	Dual freq. syn. for RF personal comm	2.95	2.25	2.09
843278	LMX2332LTM	TSSOP-20	Dual freq. syn. for RF personal comm	2.34	1.95	1.80
843340	LMX2350TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	5.95	4.49	4.21
843374	LMX2352TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	5.35	4.07	3.81
843411	LMX2354TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	3.95	2.99	2.79

## Audio Amps

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
839797	LM386M-1NOB	SOIC-8	Low voltage audio power amp.	\$1.09	\$ .77	\$ .57
839826	LM386N-1NOB	DIP-8	Low voltage audio power amp.	1.09	.79	.57
841361	LM833M/NOB	SOIC-8	Dual audio operational amp.	1.09	.79	.57
841395	LM833N/NOB	DIP-8	Dual audio operational amp.	.95	.69	.57
835761	LM1876T	TO-220/15	Dual 20W audio power amp w/ mute & standby modes	5.15	4.67	4.26
835770	LM1876TF	TO-220/15	Dual 20W audio power amp w/ mute & standby modes	5.59	4.96	4.43
835788	LM1877M-9NOB	DIP-14	Dual audio power amp.	1.75	1.27	.93
835817	LM1973N	DIP-20	µPOT™ 3-ch 76dB audio attenuator w/ mute	4.29	3.57	3.35
840270	LM4752TS	TO-263/7	Stereo 1W audio power amp.	2.79	2.10	1.57
901634	LM4765T	TO-220/15	Dual 30W audio power amp w/ mute & standby modes	5.15	3.93	3.55
840122	LM4835MTE	TSSOP-28	2W audio power amp w/ DC vol control & selectable gain	3.49	2.67	2.50
901554	LM4861M	SOIC-8	1.1W audio power amp. w/ shutdown mode	1.49	1.12	.87
840181	LM4862MNOB	SOIC-8	675mW audio power amp. w/ shutdown mode	1.54	1.13	.94
840211	LM4865M	SOIC-8	750mW audio pwr amp. w/ DC vol control/headphone sw	1.61	1.25	1.04
901597	LM4880M	SOIC-8	Dual 250mW audio power amp. w/ shutdown mode	1.45	1.09	.80
840245	LM4890M	SOIC-8	1W audio power amp.	1.49	1.10	.91

## Audio Amps

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amp.	\$1.85	\$1.66	\$1.47
24037	NSC	LM380N	DIP-14	2-watt audio power amp.	1.25	1.16	.84
24088	NSC	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amp.	.92	.79	.76
193623	+	LM386M-1	SOIC-8	Low volt. audio power amp. 250mW/12V	.29	.26	.24
24125	+	LM386N-1	DIP-8	Low voltage audio amp. 250mW/6V	.62	.46	.38
24133	+	LM386N-3	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49
24483	NSC	LM725CN	DIP-8	Instrumentation op amplifier	2.39	1.85	1.39
295718	NSC	LM1203N	DIP-28	RGB video amp.	4.55	3.87	2.90
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	1.95	1.85	1.75
23270	NSC	LM1875T	TO-220/5	20-watt power audio amplifier	2.34	2.30	1.88
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	1.13	1.02	.93
245542	NSC	LM1881M	SOIC-8	Video synchronous separator	2.34	2.00	1.49
107140	NSC	LM1881N	DIP-8	Video synchronous separator	2.85	2.19	1.66
243547	NSC	LM1894N	DIP-14	DNR noise reduction	3.05	2.80	2.10
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	4.50	4.02	3.60
315344	ST	TDA2040V	PWAT-5	20W hi-fi audio power amp.	2.59	2.33	1.75
275830	ADI	OPA2134PA	DIP-8	High-performance audio op amp.	2.29	1.85	1.77
275821	ADI	OPA2134UA	SOIC-8	High-performance audio op amp.	2.29	1.85	1.81
252013	NSC	LM3875T	TO-220/11	56W high perf. audio power amp.	5.69	4.30	4.00
320670	NSC	LM3886TF	TO-220/11	68W high perf. audio amp., isol. pkg.	6.35	4.80	4.25
192516	NSC	LM3886T	TO-220/11	68W high perf. audio amp.	5.22	4.50	3.54
302201	NSC	LM44752T	TO-220	Stereo 11W audio power amp.	2.55	1.92	1.42
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	.68	.53	.393
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	1.23	1.01	.78

\*10 pieces included in Linear kit, pg 38

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## Instrumentation Amps

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Part No.	Cross Ref.	Pkg.	Description	1	5	50
900682	INA101AM	TO-100/10	High-accuracy instrumentation amp	\$42.99	\$39.94	\$37.63
900720	INA101HP	DIP-14	High-accuracy instrumentation amp	20.55	19.09	17.98
900818	INA110KP	DIP-16	Fast-settling FET input instrumentation amp	18.19	16.91	15.93
900885	INA111BU	SOIC-16	High-speed FET input instrumentation amp	17.45	16.19	15.25
900922	INA114AP	DIP-8	Precision instrumentation amp (single/dual)	10.95	10.15	9.56
900965	INA114AU	SOIC-16	Precision instrumentation amp	10.95	10.15	9.56
901124	INA122U	SOIC-8	Single supply micropower instrumentation amp	..	Call	Call
825900	INA126P	DIP-8	Micropower instrumentation amp (single/dual)	3.45	3.21	3.02
825934	INA126PA	DIP-8	Micropower instrumentation amp (single/dual)	2.59	2.41	2.27
901466	INA163UA	SOIC-14	Low-noise, low-distortion instrumentation amp	6.49	6.04	5.69
906558	PGA202KP	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
906591	PGA203KP	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
826013	INA2126UA	SOIC-16	Micropower instrumentation amp (single & dual)	4.25	3.91	3.68
901546	INA2128UA	SOIC-16	Dual, LP instrumentation amp	12.15	11.26	10.61

★ Please call or visit our website for minimum order quantity and pricing

## Comparators

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
282087	+	LM139J	CDIP-14	Low pwr, low offset volt quad comp.	\$3.25	\$2.76	\$2.07
23528	+	LM311N	DIP-8	Voltage comparator	.35	.25	.19
23632	+	LM319N	DIP-14	High speed dual comparator	.31	.264	.197
143888	+	LM339AN	DIP-14	Low power quad comparator	.25	.23	.19
193594	+	LM339M	SOIC-14	Low power low offset volt quad comp.	.33	.276	.204
23851	+	LM339N	DIP-14	Quad comparator	.21	.19	.165
120900	+	LM392N	DIP-8	Low power op amp./volt comp.	1.42	1.20	.90
212177	+	LM393AN	DIP-8	Low pwr low offset volt dual comp.	.24	.20	.162
24281	+	LM393N	DIP-8	Dual comparator	.20	.17	.128
312266	LTC	LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator	4.89	3.55	2.66
107238	+	LM3302N	DIP-14	Low pwr low offset volt quad comp	.33	.28	.21

◆ Jameco Value Offering TI = Texas Instruments

\*10 pieces included in Linear kit, pg 38 \*\*20 pieces included in Linear kit, pg 38

## Buffers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23051	+	LH0002CN	DIP-10	General purpose buffer	\$13.75	\$11.48	\$8.91
277552	TI	BUF634P	DIP-8	250mA high speed buffer	5.99	5.59	5.29
277544	TI	BUF634T	TO-220	250mA high speed buffer	7.79	7.39	6.99
277579	TI	BUF634U	SOIC-8	250mA high speed buffer	5.99	5.59	5.29

◆ Jameco Value Offering TI = Texas Instruments

## MAXIM Op Amps

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
804666	ICL7611BCPA	DIP-8	1.4MHz low-power CMOS op amp	\$3.35	\$3.06	\$2.79
804682	ICL7621DCSA	SOIC-8	Dual low-power op amp	2.59	2.11	1.86
804703	ICL7652CWE	SOIC-16	Chopper stabilized op amp	11.39	10.61	9.94
811567	MAX421CWE	SOIC-16	±15V chopper stabilized op amp	..	Call	Call



★ Please call or visit our website for minimum order quantity and pricing

## Op Amps

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
27852	+	OP07CP	DIP-8	Ultra-low offset voltage op amp	\$6.1	\$5.9	\$5.6
252988	+	OP07DP	DIP-8	Very low offset single bipolar op amp	.74	.63	.473
23106	+	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp	2.10	1.72	1.36
120715	+	LM10CN	DIP-8	Op amp and voltage reference	2.45	1.90	1.43
120723	NSC	LM12CLK	TO-3/4	80W op amp	17.05	16.10	15.30
115300	+	OP27EP	DIP-8	Low noise precision op amp	4.39	3.57	2.67
115318	+	OP27GP	DIP-8	Low noise prec op amp (-40° to 80°C)	2.09	1.69	1.27
275805	TI	OPA27GP	DIP-8	Ultra-low noise precision op amp	2.39	2.14	1.89
275784	TI	OPA27GU	SOIC-8	Ultra-low noise precision op amp	2.39	1.92	1.88
214068	+	TL034CN	DIP-14	Enhanced low pwr/offset op amp	1.15	.94	.87
275768	+	OPA37GP	DIP-8	Ultra-low noise precision op amp	2.15	2.05	1.97
213153	+	TL054ACN	DIP-14	Enhanced JFET low offset op amp	4.59	3.75	2.92
33161	+	TL062CP	DIP-8	Low power JFET op amp (high slew)	..	.23	.199

◆ Jameco Value Offering NSC = National Semiconductor TI = Texas Instruments


◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Op Amps (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
33187	+	TL071CP	DIP-8	Low noise JFET op amp	\$3.39	\$3.32	\$2.49
213073	+	TL072ACP	DIP-8	Low noise JFET input op amp	.56	.43	.31
33195	+	TL072CP	DIP-8	Low noise JFET dual op amp	.32	.30	.288
33216	+	TL074CN	DIP-14	Low noise JFET quad op amp	.58	.516	.41
213057	+	TL081ACP	DIP-8	JFET input op amp, low offset w/ control	.51	.43	.32
33232	+	TL081CP	DIP-8	JFET input op amp., offset control	.27	.252	.223
214076	+	TL082ACP	DIP-8	JFET input op amp., low offset	.41	.384	.348
253198	+	TL082BCP	DIP-8	JFET input op amp., lowest offset	.68	.58	.48
33241	+	TL082CP	DIP-8	JFET input dual op amp	.53	.40	.30
214084	+	TL084ACN	DIP-14	JFET input op amp	.41	.384	.324
193535	+	TL084CD	SOIC-14	JFET input quad op amp	.27	.23	.173
33267	+	TL084CN	DIP-14	JFET input quad op amp	.43	.40	.37
302359	+	LM224J	CDIP-14	Low power quad industrial temp	3.65	3.39	3.12
212142	+	LM258N	DIP-8	Low pwr dual op amp industrial temp	.35	.32	.28
280241	+	TLC277CP	DIP-8	Prec. dual op amp, low offset	1.65	1.35	.98
245665	+	LM301AH	TO-5/8	Operational amplifier	2.15	1.83	1.37
212151	+	LM301AN	DIP-8	Operational amplifier	.40	.30	.29
245673	+	LM308AH	TO-5/8	Precision op amplifier	3.95	3.36	2.52
23464	+	LM308N	DIP-8	Precision op amplifier	6.59	5.60	4.20
23608	+	LM318N	DIP-8	Precision high speed op amplifier	.59	.54	.48
212169	+	LM324AN	DIP-14	Low power quad op amp, impr. offset	.35	.30	.25
86721	+	LM324D	SOIC-14	Low power quad op amplifier	.21	.18	.13
23683	+	LM324N	DIP-14	Low power quad op amplifier	.28	.24	.21
229904	+	LF347N	DIP-14	Quad JFET input op amp (wide band)	.46	.374	.284
23915	+	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.29	.216	.168
22912	+	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
22939	+	LF353N	DIP-8	Dual BIFET (comp w/ TL082CP)	.39	.37	.35
22971	+	LF356N	DIP-8	JFET input op amplifier (wide band)	.95	.81	.59
22998	+	LF357N	DIP-8	JFET input op amp (wide band decomp.)	2.55	2.30	1.72
120862	+	LM358AN	DIP-8	Low power dual (improved 358N)	.34	.29	.25
23966	+	LM358N	DIP-8	Low power dual op amplifier	.24	.21	.18
23018	+	LF411CN	DIP-8	Low offset drift JFET input op amp	1.35	1.00	.75
193640	+	LF412CD	SOIC-8	Low offset drift JFET input dual	.27	.24	.22
23026	+	LF412CN	DIP-8	Low offset drift JFET input dual	1.24	.92	.68
106681	+	LF442CN	DIP-8	Dual low power JFET input op amp	1.35	1.00	.75
119992	+	LF444CN	DIP-14	Quad low pwr JFET input op amp	1.65	1.39	1.04
276541	MAX	MAX492CPA	DIP-8	Dual upwr, single supply rail-to-rail	5.09	4.05	3.63
143976	+	LMC660CN	DIP-14	CMOS quad operational amplifier	1.55	1.34	1.21
120926	+	LM675T	TO-220/5	Power op amplifier	5.59	4.40	4.09
24491	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.89
24521	+	LM741CH	TO-5/8	Op amplifier	3.25	2.90	2.61
24539	+	LM741CN	DIP-8	Op amplifier	.29	.25	.19
24563	+	LM747CN	DIP-14	Dual 741 op amplifier	4.19	3.85	3.39
311132	ADI	AD811AN	DIP-8	High performance video op amp	7.55	6.86	6.34
143896	NSC	LM837N	DIP-14	Low noise quad operational amp	1.35	1.12	.82
239222	LTC	LT1001CN8	DIP-8	Precision op amplifier	2.05	1.65	1.24
239169	+	LT1013CP	DIP-8	Dual precision op amplifier	1.16	.94	.71
239177	+	LT1014DN	DIP-14	Quad precision op amplifier	3.29	2.99	2.89
300193	LTC	LT1050CN8	DIP-8	Precision zero-drift w/ int. cap	3.35	2.27	1.70
193682	+	LM1458M	SOIC-8	Dual op amplifier	.26	.22	.165
23131	+	LM1458N	DIP-8	Dual op amplifier	.36	.33	.25
57007	+	LM2902N	DIP-14	Low power quad op amplifier	.25	.23	.22
12116	+	CA3080E	DIP-8	Op transconductance amp. (100135)	3.54	3.18	2.86
12183	+	CA3130E	DIP-8	CMOS op amplifier	.81	.72	.69
12204	+	CA3140E	DIP-8	Bi-MOS op amplifier	.51	.47	.42
212193	+	MC3403N	DIP-14	Quad bipolar op amplifier	.43	.395	.36
24168	+	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
29356	+	RC4136N	DIP-14	Quad op amp. (XR4136)	.68	.63	.47
251125	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp	.33	.30	.27
252970	+	NE5532AP	DIP-8	Dual lower noise op amplifier	.50	.45	.39
27385	+	NE5532N	DIP-8	Dual low noise op amplifier	.66	.50	.38

◆ Jameco Value Offering MAX = Maxim ADI = Analog Devices NSC = National Semiconductor

LTC = Linear Technology \*10 pcs. / \*\*20 pcs. in Linear kit, pg 38  Blue Part No. = Limited Quantity Available

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## Op Amps (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
27406	+	NE5534	DIP-8	Low noise op amplifier	\$ .78	\$ .66	\$ .54
302068	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	4.35	3.70	3.61
301903	NSC	LM6171BIN	DIP-8	Hi speed, LP low distortion volt feedback	2.79	2.12	1.93
301874	NSC	LM61811N	DIP-8	100mA, 100MHz current feedback	2.19	1.69	1.54
301364	NSC	LMC6442IN	DIP-8	Dual upwr r-r output single supply	2.25	1.95	1.75
126893	NSC	LMC6482AIN	DIP-8	CMOS dual r-r input/output, lower VOS	1.89	1.43	1.07
267223	NSC	LMC6482IN	DIP-8	CMOS dual r-r I/O op amp.	1.69	1.24	.92
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O op amp., lower VOS	2.99	2.09	1.82
301794	NSC	LM7171AIN	DIP-8	Hi speed hi output current volt feedback	2.39	2.15	1.98
312750	ADI	AD8052AR	SOIC-8	Low-cost high speed r-r	2.55	2.17	1.63
192532	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.20	.88	.64
277704	+	MC33202P	DIP-8	Low voltage r-r op amp.	.69	.59	.49
251061	+	MC34072P	DIP-8	Single supply 3V-44V op amp.	.91	.77	.58

+ Jameco Value Offering NSC = National Semiconductor ADI = Analog Devices

\*10 pcs. / \*\*20 pcs. in Linear kit, below

## Linear Series

\* Minimum order 10 pieces

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
25751	+	MF10CN	DIP-20	General purpose dual active filter	\$3.35	\$3.03	\$2.76
16301	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)(TC426CPA)	5.19	4.67	4.19
239281	+	DG201BDJ	DIP-16	Quad analog switch	1.34	1.25	.98
674291	VSH	DG201BDY	SOP-16	CMOS quad SPST analog switch	1.19	1.07	1.00
674304	VSH	DG201HSDY	SOP-16	CMOS quad SPST analog switch	3.05	2.75	2.46
239290	+	DG202BDJ	DIP-16	Quad analog switch	1.35	1.15	1.06
239311	+	DG211BDJ	DIP-16	Quad analog switch	1.17	1.06	.96
674321	VSH	DG211BDY	SOP-16	CMOS quad SPST analog switch	1.33	1.20	1.06
239329	+	DG211CJ	DIP-16	SPST quad channel analog switch	3.42	2.91	2.19
674339	VSH	DG212BDY	SOP-16	CMOS quad SPST analog switch	1.17	1.05	.97
697119	VSH	DG217BDY	SOIC-16	Hi-spd quad mono (SPST) switch	3.79	3.06	2.89
674347	VSH	DG303BDJ	DIP-14	Dual CMOS DPST analog switch	2.55	2.31	2.08
23721	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.19	1.69	1.30
674355	VSH	DG333ADW	SOP-20	Precision quad SPDT analog switch	3.19	2.87	2.48
23739	+	LM334Z	TO-92	Adjust current source	.52	.48	.432
297676	+	LM336Z-5.0	TO-92	5V voltage reference diode	1.32	.98	.81
193578	+	LM336M-2.5	SOIC-8	Precision 2.5V shunt regulator diode	.33	.30	.27
23771	+	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.30	.22	.17
120889	+	LM385B2.5	TO-92	Voltage reference diode (2.5V±1.5%)	.39	.37	.349
24117	+	LM385Z12	TO-92	Micropower volt ref diode (1.2V)	.42	.372	.28
24109	+	LM385Z-2.5	TO-92	Voltage reference diode (2.5V±3%)	.50	.449	.338
23000	+	LF398N	DIP-8	Sample and hold circuit	1.14	.98	.75
697127	VSH	DG403BDJ	DIP-16	Low-power, high-speed switch	1.75	1.59	1.43
309833	+	DG403DJ	DIP-16	Dual SPDT (NO) & SPDT (NC) analog switch	2.95	2.50	1.88
697143	VSH	DG405DY	SOIC-16	Low-power, high-speed analog switch	3.09	2.79	2.53
256541	+	DG406DJ	DIP-28	1 of 16 multiplexer/demultiplexer	4.65	3.94	2.96
674363	VSH	DG406DN	PLCC-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	4.39	3.95	3.64
674371	VSH	DG406DW	SOP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	4.79	4.32	3.97
272161	+	DG407DJ	DIP-28	Dual 8-ch multiplexer/demultiplexer	5.69	5.11	4.61
256532	+	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.75	1.49	1.29
279582	+	DG408DY	SOIC-16	1 of 8 multiplexer/demultiplexer	1.30	1.23	1.10
243643	+	DG411DJ	DIP-16	Quad SPST (NC) analog switch	1.99	1.79	1.33
256516	+	DG412DJ	DIP-16	Quad SPST (NO) analog switch	1.28	1.09	.96
674398	VSH	DG413DJ	DIP-16	Imprvd quad SPST (2NO&2NC) analog sw.	1.36	1.03	.61
674401	VSH	DG417DY	SOP-8	Improved SPST NC analog switch	.78	.74	.64
674419	VSH	DG418DJ	DIP-8	Improved SPST NO analog switch	1.44	1.32	1.19
674427	VSH	DG418DY	SOP-8	Improved SPST NO analog switch	.78	.74	.64
279540	+	DG419DJ	DIP-8	Dual SPST (NO), dual SPST (NC) analog switch	1.85	1.60	1.51
33347	+	TL431CLP	TO-92	Program precision reference	.32	.27	.20
697151	VSH	DG441DY	SOIC-16	Quad (SPST) CMOS analog switch	1.19	1.09	1.03
33355	+	TL494CN	DIP-16	Control circuit pulse-width-modulated	.43	.32	.25
697178	VSH	DG540DN	PLCC-20	Wideband/video "T" switch	3.65	3.35	3.15
697186	VSH	DG541DY	SOIC-16	Wideband/video "T" switch	3.19	2.93	2.75
86799	+	LM555CN	SOIC-8	Timer (NE555D)	*	.16	.13
27422	+	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
246676	+	LMC555CM	SOIC-8	CMOS 555 timer	.71	.504	.372

+ Jameco Value Offering VSH = Vishay

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Linear Series (Continued)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
126797	+	LMC555CN*	DIP-8	CMOS 555 timer	\$ .66	\$ .61	\$ .55
193658	+	LM556CM	SOIC-14	Dual 555 timer	.34	.29	.26
24328	+	LM556N*	DIP-14	Dual 555 timer	.82	.60	.45
27457	+	NE558N	DIP-16	Quad timer (NE558C)	.68	.62	.52
27473	+	NE564AN	DIP-16	High frequency phase locked loop	2.34	1.79	1.26
24352	+	LM565N	DIP-14	Phased locked loop	1.69	1.28	.96
24379	+	LM566CN	DIP-8	Function generator (VCO)	12.95	12.31	11.69
24395	+	LM567CN	DIP-8	Tone decoder	.45	.43	.31
246650	+	LMC567CN	DIP-8	Tone decoder	1.55	1.19	.89
27490	+	NE571N	DIP-16	Compander, subscriber	3.55	3.20	2.88
287785	ADI	AD581KH	TO-5/3	10V volt ref hi prec 10mV tolerance	8.09	7.37	6.89
287814	ADI	AD584JH	TO-99	Prog voltage reference 30mV tol.	5.65	4.80	3.60
697194	VSH	DG613DY	SOIC-16	Hi-spd, low-glitch D/CMOS analog sw.	3.19	2.96	2.82
115174	ADI	AD620AN	DIP-8	Low-cost instrument amplifier	12.65	11.60	8.70
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.97	6.28
674435	VSH	DG641DY	SOP-16	Quad SPST low on-res. wideband/video sw.	2.29	2.22	1.90
674451	VSH	DG642DY	SOP-8	SPDT low on-res. wideband/video sw.	1.89	1.78	1.38
674460	VSH	DG643DY	SOP-16	Dual SPDT low on-res. wideband/video sw.	2.75	2.62	2.03
316515	+	TC962CPA	DIP-8	High current charge pump DC-DC con.	2.09	2.03	1.95
239257	+	LT1004CZ-12	TO-92	1.2V, micropower voltage reference	.68	.57	.46
118578	+	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211	+	LM1496N	DIP-14	Balanced mod/demodulator (MC1496P)	.65	.56	.506
34278	+	ULN2003AN*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.39	.30	.23
34972	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280073	+	TL2426CLP	TO-92	Rail splitter precision virtual ground	1.25	.99	.92
34315	+	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array	.76	.65	.54
123625	+	LM2907N-8	DIP-8	Frequency to voltage converter	1.55	1.32	.99
23317	+	LM2907N	DIP-14	Frequency to voltage converter	1.55	1.16	1.04
23350	+	LM2917N-8	DIP-8	Freq. to voltage conv. w/ zener	2.05	1.53	1.13
23341	+	LM2917N-14	DIP-14	Freq. to voltage conv. w/ zener	2.03	1.53	1.13
12079	+	CA3046N	DIP-14	NPN transistor array (ULN2046)	.49	.46	.41
12159	+	CA3086N	DIP-14	Transistor array NPN (ULN2086)	1.29	1.19	1.09
12247	+	CA3162E	DIP-16	Dual slope & rate analog/digital conv.	9.85	8.86	7.98
31974	+	SG3524N	DIP-16	Regulating pulse width modulator	.59	.52	.43
25275	+	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
29372	+	RC4151NB	DIP-8	Volt to frequency converter (XR4151)	1.59	1.35	1.01
288163	ADI	AD7501KN	DIP-16	8-channel analog multiplexer	10.55	8.97	8.47
51140	+	7555IPA	DIP-8	CMOS timer (LM555CN)	.33	.31	.29
51174	+	7660CPA	DIP-8	CMOS volt convtr (+5 to ±5V) (M660AN)	.75	.68	.59
290301	+	ICL7660ACP	DIP-8	1.5V - 12V volt converter, 10kHz, supp	1.35	1.23	.92
316646	+	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20V out	2.95	2.75	2.49
674478	+	DG9431DY	SOP-8	Low-volt. single SPDT analog switch	.97	.94	.80
25021	ON	MC14411P	DIP-24	Bit rate frequency generator	4.95	4.79	4.62
25064	ON	MC14490P	DIP-16	Hic contact bounce eliminator	6.25	5.63	5.03
354597	+	MC14551N	DIP-16	Quad 2-ch analog multi/demultiplexer	1.20	.97	.73
354626	+	MC14557	DIP-16	1-64 bit variable length shift register	.88	.74	.54
241832	ON	MC145012	DIP-16	Smoke detector, photoelectric type	2.25	2.14	2.03
118586	ON	LM14515P	DIP-28	Parallel input PLL freq synthesizer	6.15	5.20	4.10

+ Jameco Value Offering VSH = Vishay ADI = Analog Devices ON = ON Semi

\*10 pcs. / \*\*20 pcs. in Linear kit, below + Pull = Extra Savings

Linear and Interface IC Kit **SAVE \$59**

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT

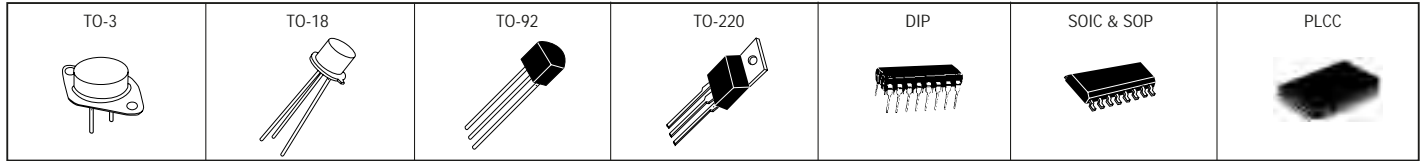
20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T



84988

Part No.	Description	Wt. (lbs.)	1	10
84988	480 pcs. (40 types) analog IC kit	6.0	\$212.95	\$192.64
130411	Refill for 84988 (480 pcs.)	1.3	203.94	175.14

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## TEXAS INSTRUMENTS Linear Series

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Part No.	Cross Ref.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
700672	ULQ2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	\$ .69	\$ .67	\$ .65
700613	ULN2004AD	SOIC-16	Hi-volt/curr. darl. transistor array	.62	.46	.34
700630	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.62	.46	.34
700648	ULN2803ADW	SOIC-18	Hi-volt/curr. darl. transistor array	* .472	.461	
700664	ULN2803AN	DIP-18	Hi-volt/curr. darl. transistor array	* .437	.424	
700429	TPSS4612PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.29	6.00
700437	TPSS4613PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90
700445	TPSS4614PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90
700453	TPSS4616PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90

## Digital Potentiometers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744	MCP41010-IP	DIP-8	10kΩ, 256 steps, SPI digital pot	\$1.69	\$1.55	\$1.41
241787	MCP41100-IP	DIP-8	100kΩ, 256 steps, SPI digital pot	1.69	1.55	1.40
241752	MCP42010-IP	DIP-14	10kΩ, 256 steps, 2-ch, SPI digital pot	2.35	2.21	2.10

## Temperature Sensors

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107094	NSC	LM34CZ	TO-92	Prec temp sensor (-40° to +230°F)	\$5.45	\$4.30	\$4.22
193480	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F)	1.85	1.39	1.10
155192	NSC	LM34DZ	TO-92	Prec temp sensor (+32° to +212°F)	2.09	1.79	1.35
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C)	2.35	2.00	1.50
107107	NSC	LM35CZ	TO-92	Prec temp sensor (-40° to 110°C)	4.39	3.37	2.52
155740	NSC	LM35DZ	TO-92	Prec temp sensor (0° to +100°C)	.91	.83	.75
278387	ADI	TMP36GT9	TO-92	Low voltage temp sensor	1.00	.92	.82
826662	TI	TMP75AID	SOIC-8	Digital sensor w/ 2-wire interface	1.85	1.69	1.59
761838	TI	TMP100NA/250	SOT-23/6	Digital sensor w/ I2C interface	* Call	Call	Call
761862	TI	TMP121AIDBVT	SOT-23/6	1.5°C accurate digital sensor w/ SPI interface	* Call	Call	Call
282028	+	LM135H	TO-46	Precision temperature sensor	8.25	7.57	6.89
120820	+	LM335AZ	TO-92	Precision temperature sensor	.98	.90	.86
23755	+	LM335Z	TO-92	Volt mode temperature sensor	.67	.61	.44
241939	+	AD590JH	TO-52/3	Two terminal IC temp transducer	6.85	6.49	6.19
313306	+	AD594AQ	DIP-14	Thermocouple amp for iron-constantan	12.99	11.69	10.53
313293	+	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel	13.55	11.89	10.52

◆ Jameco Value Offering NSC = National Semiconductor ADI = Analog Devices TI = Texas Instruments  
 ★ Please call or visit our website for minimum order quantity and pricing

## Pressure & Hall Effect Sensors



Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls

• To convert kPa to PSI: 1kPa = 0.1450377PSI

### Pressure Sensors

Part No.	Product No.	Type*	Case Type	Pressure (kPa)	Output	Op. Volt. (VDC@mA)	1	10	100
320899	MPX10DP	—	344C	0 - 10	35mV	3 @ 6	\$10.95	\$10.57	\$10.18
320987	MPX2010DP	D	344C	0 - 10	25mV	10 @ 6	17.82	16.15	13.84
321015	MPX2010GP	G	344B	0 - 10	25mV	10 @ 6	13.39	13.28	13.17
321293	MPX5050D	D	867	0 - 50	4.7V	5 @ 7	16.86	15.88	14.88

\* D = differential; G = gauge

### Hall Effect Sensors

Part No.	Cross Ref.	Pkg.	Description	1	10	100
319100	AH182PL	SIP-3	Hall-effect switch 25mA, low power	\$ .83	\$ .57	\$ .44

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

## ON Semiconductor Transistors

For more ON Semi Transistors visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ Ic)	NEW	1	10	100
806784	BDX33C	TO-220AB	NPN	100	750 @ 3A	★	Call	Call	Call
806805	BDX34C	TO-220AB	PNP	100	750 @ 3A	★	Call	Call	Call
806821	BDX53C	TO-220AB	NPN	100	4 @ 3A	★	Call	Call	Call
885961	BUX85	TO-220AB	NPN	450	30 @ 0.1A	★	Call	Call	Call
886008	D44VH10	TO-220AB	NPN	80	35 @ 2A	.71	.67	.62	
806952	D44VH10G	TO-220AB	NPN	80	35 @ 2A	.71	.67	.62	
886024	D45VH10	TO-220AB	PNP	80	35 @ 2A	.71	.67	.62	
885478	2N6040	TO-220AB	PNP	60	1000 @ 4A	★	Call	Call	Call
885507	2N6043	TO-220AB	NPN	60	1000 @ 4A	★	Call	Call	Call
806080	2N6045G	TO-220AB	NPN	100	1000 @ 3A	★	Call	Call	Call
885523	2N6107	TO-220AB	PNP	70	30 @ 2A	★	Call	Call	Call
885540	2N6109	TO-220AB	PNP	50	30 @ 2.5A	.66	.62	.58	
885574	2N6387	TO-220AB	NPN	60	1000 @ 5A	.71	.67	.62	
806160	2N6387G	TO-220AB	NPN	60	1000 @ 5A	.71	.67	.62	
806186	2N6388G	TO-220AB	NPN	80	1000 @ 5A	★	Call	Call	Call
885611	2N6491	TO-220AB	PNP	80	20 @ 5A	.65	.61	.57	
806371	2N6491G	TO-220AB	PNP	80	20 @ 5A	.65	.61	.57	

★ Please call or visit our website for minimum order quantity and pricing

## NPN Bipolar Transistors

Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ Ic)	* Minimum order 10 pieces			
							1	10	100	1000
26489	MPSA13	+	TO-92	NPN	30	5k @ 0.1A	* .059	\$ .034	\$ .028	
210593	MPSA14	+	TO-92	NPN	30	20k @ .10A	* .083	.067	.038	
210681	MPSA18	+	TO-92	NPN	45	500 @ .001A	* .083	.066	.049	
33021	TIP29A	+	FSC	TO-220	60	15 @ 1A	.43	.395	.382	.306
297781	TIP29C	+	TO-220	NPN	100	40 @ .2A	.25	.225	.18	.138
33048	TIP31A	+	TO-220	NPN	60	10 @ 3A	.49	.39	.35	.29
179354	TIP31C	+	FSC	TO-220	100	10 @ 3A	.49	.37	.30	.18
33081	TIP41A	+	TO-220	NPN	60	15 @ 3A	.59	.531	.425	.319
179371	TIP41C	+	FSC	TO-220	100	15 @ 3A	.35	.31	.248	.186
178546	MPSA42	+	TO-92	NPN	30	40 @ .03A	* .087	.074	.056	
32977	TIP102	+	TO-220	NPN	100	1k @ 3A	.57	.49	.41	.245
179240	TIP102	+	FSC	TO-220	100	1k @ 3A	.38	.32	.30	.29
288471	TIP110	+	TO-220	NPN	60	1k @ 1A	.36	.32	.26	.194
32993	TIP120	+	TO-220	NPN	60	1k @ 3A	.49	.45	.39	.27
120221	BPW77NA	+	TO-18	NPN	70	—	1.99	1.89	1.55	1.21
179291	TIP120	+	FSC	TO-220	60	1k @ 3A	.54	.47	.39	.33
288585	TIP121	+	TO-220	NPN	80	1k @ .5A	.34	.306	.245	.184
120416	TIP122	+	TO-220	NPN	100	1k @ 3A	.42	.37	.35	.26
179303	TIP122	+	FSC	TO-220	100	1k @ 3A	.55	.42	.32	.195

◆ Jameco Value Offering FSC = Fairchild Semiconductor \*10 pcs./ \*\*100 pcs. in Transistor cabinet kit, 42

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## NPN Bipolar Transistors (Continued)

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100 1000
254810	BC337	+	TO-92	NPN	45	100 @ .10A	.....	* \$ .061	\$ .049 \$ .037
211529	MJE340	+	TO-225	NPN	300	30 @ .05A	.....	.27 .24	.21 .155
255994	BU406	+	TO-220	NPN	200	—	.....	.56 .504	.403 .302
254801	BC547B	+	TO-92	NPN	45	330 @ .002A	.....	* .075	.06 .045
254799	BC547C	FSC	TO-92	NPN	45	600 @ .002A	.....	* .046	.039 .025
309825	BD681	+	TO-225	NPN	100	750 @ 2A	.....	.26 .245	.23 .173
211553	MJE800	+	TO-225	NPN	60	750 @ 1.5A	.....	.35 .324	.288 .252
38228	2N2219A	+	TO-39	NPN	40	100 @ .15A	.....	.41 .37	.31 .28
26446	MPQ2222	+	DIP-14	NPN	40	100 @ .15A	.....	2.79 2.52	2.29 2.13
28628	PN2222	+	TO-92	NPN	30	100 @ .15A	.....	* .065	.041 .025
213938	MMBT222A	+	SOT-23	NPN	40	100 @ .15A	.....	* .04	.03 .022
213997	MMPO222A	+	SOIC-16	NPN	40	100 @ .15A	.....	.94 .81	.72 .54
210673	MPS2222A	+	TO-92	NPN	40	40 @ .50A	.....	* .058	.052 .045
178511	PN2222A	+	TO-92	NPN	40	100 @ .15A	.....	* .13	.092 .051
38236	2N2222A	+	TO-18	NPN	40	100 @ .15A	.....	.42 .41	.39 .37
38295	2N3053	+	TO-39	NPN	40	25 @ .15A	.....	.47 .43	.344 .258
211385	TIP3055	+	TO-218	NPN	60	5 @ .001A	.....	1.05 .94	.76 .57
38308	2N3055	+	TO-3	NPN	60	15 @ 10A	.....	.89 .79	.68 .61
211406	2N3055A	+	TO-3	NPN	60	20 @ 4A	.....	1.55 1.49	1.13 .98
25857	MJE3055T	+	TO-220	NPN	60	20 @ 4A	.....	.53 .49	.45 .39
194415	2N3439	+	TO-39	NPN	350	40 @ .02A	.....	.53 .477	.382 .287
209242	2N3771	+	TO-3	NPN	40	15 @ 15A	.....	1.79 1.58	1.50 1.17
38324	2N3772	+	TO-3	NPN	40	15 @ 10A	.....	1.89 1.79	1.69 1.34
140151	2N3773	+	TO-3	NPN	140	15 @ 8A	.....	2.45 2.32	2.26 1.69
94967	MMBT3904	+	SOT-23	NPN	40	100 @ .01A	.....	* .042	.034 .025
38359	2N3904	+	TO-92	NPN	40	100 @ .01A	.....	* .069	.057 .035
178597	2N3904	FSC	TO-92	NPN	40	100 @ .01A	.....	* .072	.054 .122
38421	2N4401	+	TO-92	NPN	40	100 @ .15A	.....	* .08	.06 .05
310666	2N5038	+	TO-3	NPN	150	20 @ 12A	.....	6.89 6.20	4.96 3.72
140373	2N5179	+	TO-72	NPN	12	25 @ .003A	.....	.59 .56	.512 .482
254764	2N5886	+	TO-3	NPN	80	20 @ 10A	.....	2.45 2.21	1.77 1.33
194589	2N6045	+	TO-220	NPN	100	1k @ 3A	.....	.43 .42	.378 .34
194600	2N6059	+	TO-3	NPN	100	750 @ 6A	.....	1.75 1.54	1.49 1.42
255003	2N6427	+	TO-92	NPN	40	10k @ .01A	.....	* .074	.059 .044
194618	2N6547	+	TO-3	NPN	400	12 @ 5A	.....	2.99 2.84	2.68 2.42
194626	2N6678	+	TO-3	NPN	400	8 @ 15A	.....	6.79 6.11	4.89 3.67

Jameco Value Offering FSC = Fairchild Semiconductor \*10 pcs./\*\*100 pcs. in Transistor cabinet kit, 42

## PNP Bipolar Transistors

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100 1000
33030	TIP30A	+	TO-220	PNP	60	15 @ 1A	.....	\$ .56 \$ .33	\$ .311 \$ .233
33064	TIP32A	+	TO-220	PNP	60	10 @ 3A	.....	.41 .383	.342 .258
181841	TIP32C	+	TO-220	PNP	100	10 @ 3A	.....	.29 .261	.222 .167
33101	TIP42A	+	TO-220	PNP	60	15 @ 3A	.....	.49 .47	.45 .36
139580	TIP42C	+	TO-220	PNP	100	15 @ 3A	.....	.39 .34	.29 .22
178554	MPSA92	+	TO-92	PNP	300	25 @ .003A	.....	.13 .092	.063 .135
32985	TIP106	+	TO-220	PNP	80	1k @ 3A	.....	.64 .58	.52 .442
179258	TIP107	+	TO-220	PNP	100	1k @ 3A	.....	.49 .39	.353 .21
288526	TIP115	+	TO-220	PNP	60	1k @ 1A	.....	.31 .28	.22 .167
33013	TIP125	+	TO-220	PNP	60	1k @ 3A	.....	.49 .45	.29 .26
179320	TIP127	FSC	TO-220	PNP	100	1k @ 3A	.....	.45 .40	.32 .24
211537	MJE350	+	TO-225	PNP	300	30 @ .05A	.....	.41 .37	.33 .29
211545	MJE700	+	TO-225	PNP	60	750 @ 1.5A	.....	.30 .264	.24 .204
194378	2N2905A	+	TO-39	PNP	60	100 @ .15A	.....	.45 .43	.41 .31
26454	MPQ2907	+	DIP-14	PNP	40	100 @ .15A	.....	2.19 1.85	1.35 .99
28644	PN2907	+	TO-92	PNP	40	100 @ .15A	.....	* .106	.085 .045
211342	MPS2907A	+	TO-92	PNP	60	100 @ .15A	.....	* .057	.051 .04
178520	PN2907A	+	TO-92	PNP	60	100 @ .15A	.....	* .098	.064 .058

Jameco Value Offering FSC = Fairchild Semiconductor \*10 pcs./\*\*100 pcs. in Transistor cabinet kit, 42

+ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## PNP Bipolar Transistors (Continued)

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100 1000
38279	2N2907A	+	TO-18	PNP	60	100 @ .15A	.....	\$ .38 \$ .333	\$ .286 \$ .257
25831	MJE2955T	+	TO-220	PNP	60	20 @ 4A	.....	.53 .375	.361 .272
38375	2N3906	+	TO-92	PNP	40	100 @ .01A	.....	* .051	.035 .034
178618	2N3906	FSC	TO-92	PNP	40	100 @ .01A	.....	* .046	.042 .033
38447	2N4403	+	TO-92	PNP	40	100 @ .15A	.....	* .05	.049 .036
253438	2N5884	+	TO-3	PNP	80	4 @ 25A	.....	2.25 2.03	1.62 1.24
194571	2N6042	+	TO-220	PNP	100	1k @ 3A	.....	.66 .60	.476 .447
194597	2N6052	+	TO-3	PNP	100	750 @ 6A	.....	1.75 1.69	1.64 1.47

Jameco Value Offering FSC = Fairchild Semiconductor \*10 pcs./\*\*100 pcs. in Transistor cabinet kit, pg 42

## J-FETs

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>GS</sub> @ I <sub>G</sub> (μA)	I <sub>DSS</sub> (mA) @ V <sub>DS</sub>	1	10	100 1000
26403	MPF102	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.....	* \$ .155	\$ .11 \$ .08
253948	2N5457	+	TO-92	N-Ch	-25 @ -10	1 @ 15	.....	.20 .18	.126 .102
253921	2N5458	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.....	.29 .261	.209 .157
253884	2N5484	+	TO-92	N-Ch	-25 @ -1	1 @ 15	.....	.29 .26	.208 .156
253585	2N5485	+	TO-92	N-Ch	-25 @ -1	4 @ 15	.....	* .116	.104 .094
253577	2N5486	+	TO-92	N-Ch	-25 @ -1	8 @ 15	.....	.26 .23	.19 .14
253542	2N5639	+	TO-92	N-Ch	-30 @ -10	25 @ 20	.....	.21 .034	.031 .028
38527	2N5951	+	TO-92	N-Ch	-30 @ -1	7 @ 15	.....	.69 .64	.44 .39
253913	2N5460	+	TO-92	P-Ch	40 @ 10	-1 @ -15	.....	.38 .339	.271 .203
253892	2N5462	+	TO-92	P-Ch	40 @ 10	-4 @ -15	.....	* .089	.081 .073

Jameco Value Offering \*10 pcs. in Transistor cabinet kit, pg 42



## N-Channel MOSFETs

For more Fairchild MOSFETs  
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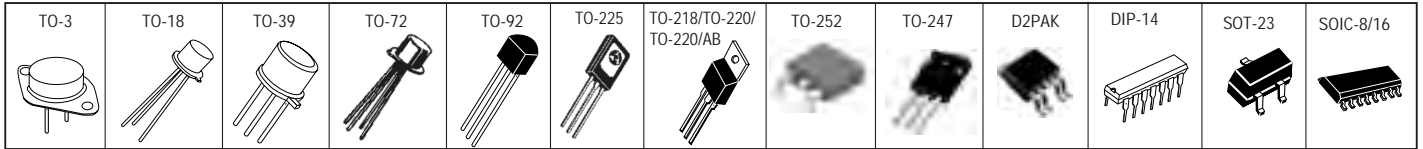
* Minimum order 5 pieces									
Part No.	Product No.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	5	50	
787747	RFD12N06RLE	+	TO-251AA	N-ch	60	17A	.....	\$ .69 \$ .63	\$ .536
787798	RFP12N10L	+	TO-220AB	N-ch	100	12A	.....	.65 .55	.47
787755	RFD14N05L	+	TO-251AA	N-ch	50	14A	.....	.55 .494	.417
787763	RFD14N05LSM_NL	+	TO-252AA	N-ch	50	14A	.....	.57 .52	.49
874971	RFD14N05SM	+	TO-252AA	N-ch	50	14A	.....	* .408	.344
787771	RFD16N05SM	+	TO-252AA	N-ch	50	16A	.....	.75 .69	.58
787819	RFP22N10	+	TO-220AB	N-ch	100	22A	.....	1.19 1.07	.91
875034	RFP40N10	+	TO-247	N-ch	100	40A	.....	1.15 1.07	.90
787843	RFP50N05L	+	TO-220AB	N-ch	50	50A	.....	1.15 1.07	.90
875051	RFP50N06	+	TO-220AB	N-ch	60	50A	.....	.99 .89	.75
875077	RFP70N06	+	TO-220AB	N-ch	60	70A	.....	1.55 1.40	1.18
787851	RFP70N06_NL	+	TO-220AB	N-ch	60	70A	.....	1.55 1.40	1.18
874998	RFD3055LE	+	TO-251AA	N-ch	60	11A	.....	.55 .487	.411
787827	RFP3055LE	+	TO-251AA	N-ch	60	11A	.....	.55 .505	.426
787835	RFP3055LE_NL	+	TO-251AA	N-ch	60	11A	.....	* .514	.478
787780	RFD3055LES	+	TO-252AA	N-ch	60	11A	.....	.59 .52	.439
785901	HRF3205	+	TO-220AB	N-ch	55	100A	.....	1.39 1.27	1.07
785910	HUF75343P3	+	TO-220AB	N-ch	55	75A	.....	1.79 1.65	1.39
785928	HUF75343S3S	+	TO-263AB	N-ch	55	75A	.....	2.05 1.86	1.57
785936	HUF75344G3	+	TO-247	N-ch	55	75A	.....	2.09 1.91	1.61
785944	HUF75639P3	+	TO-220AB	N-ch	100	56A	.....	1.39 1.27	1.07
785952	HUF75639S3S	+	TO-263AB	N-ch	100	56A	.....	1.75 1.60	1.35
785961	HUF75645P3	+	TO-220AB	N-ch	100	75A	.....	2.69 2.46	2.07
785979	HUF75645S3S	+	TO-263AB	N-ch	100	75A	.....	3.89 3.60	3.03
785987	HUF75652G3	+	TO-247	N-ch	100	75A	.....	6.25 5.76	4.86
785995	HUF76609D3	+	TO-251AA	N-ch	100	10A	.....	.69 .62	.523

## NTE Replacement Semiconductors

When you need a replacement semiconductor, look towards the products from NTE.

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



## N-Channel & P-Channel MOSFETs

* Minimum order 10 pieces										
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100	1000
669821	IRFD014	✦	DIP-4	N-Ch	60	1.7A	.43	.412	.387	.35
669839	IRFL014	✦	SOT-223	N-Ch	60	2.7A	.49	.41	.37	.31
669847	IRLD014	✦	DIP-4	N-Ch	60	1.7A	.45	.36	.33	.29
669855	IRLL014N	✦	SOT-223	N-Ch	55	2.8A	.55	.46	.33	.29
669863	IRFBG20	✦	TO-220AB	N-Ch	1000	1.4A	1.17	.94	.84	.70
669871	IRFZ24N	✦	TO-220AB	N-Ch	55	17A	.54	.43	.39	.33
669880	IRLR024N	✦	TO-252AA	N-Ch	55	17A	.55	.50	.47	.43
669898	IRLU024N	✦	TO-251AA	N-Ch	55	17A	.78	.64	.57	.456
669901	IRLZ24N	✦	TO-220AB	N-Ch	55	18A	.53	.42	.37	.32
669919	IRFBE30	✦	TO-220AB	N-Ch	800	4.1A	1.32	1.07	.98	.83
669927	IRFBG30	✦	TO-220AB	N-Ch	1000	3.1A	1.35	1.09	.96	.80
669935	IRFZ34N	✦	TO-220AB	N-Ch	55	26A	.59	.468	.42	.348
669943	IRLZ34N	✦	TO-220AB	N-Ch	55	30A	.57	.54	.50	.46
669951	IRFZ44N	✦	TO-220AB	N-Ch	55	49A	.78	.62	.56	.468
669960	IRFZ44NS	✦	D2PAK	N-Ch	55	49A	1.05	.82	.58	.55
669978	IRFZ46N	✦	TO-220AB	N-Ch	55	53A	.82	.78	.73	.59
669986	IRFZ48N	✦	TO-220AB	N-Ch	55	64A	.99	.80	.71	.59
669994	IRFD110	✦	DIP-4	N-Ch	100	1.0A	.59	.49	.45	.37
670004	IRFL110	✦	SOT-223	N-Ch	100	1.5A	.45	.36	.32	.27
670012	IRFD120	✦	DIP-4	N-Ch	100	1.3A	.66	.58	.52	.43
670021	IRFR120N	✦	TO-252AA	N-Ch	100	9.4A	.45	.42	.39	.32
670039	IRLD120	✦	DIP-4	N-Ch	100	1.3A	.45	.41	.38	.35
670047	IRLR120N	✦	TO-252AA	N-Ch	100	10A	.69	.61	.51	.45
256014	BSS138	✦	SOT-23	N-Ch	50	0.2A	*	.058	.042	.038
670055	IRFP150N	✦	TO-247	N-Ch	100	42A	1.35	.95	.79	.72
256031	BS170	✦	TO-92	N-Ch	60	—	*	.10	.07	.06
670063	IRFL210	✦	SOT-223	N-Ch	200	0.96A	.71	.58	.52	.43
670071	IRFR220N	✦	TO-252AA	N-Ch	200	5A	.71	.58	.52	.43
670080	IRFP250	✦	TO-247	N-Ch	200	30A	1.49	1.39	1.25	.99
670098	IRFP250N	✦	TO-247	N-Ch	200	30A	2.69	2.35	1.89	1.65
670101	IRFP260N	✦	TO-247	N-Ch	200	50A	2.69	2.15	1.95	1.65
670119	IRFR320	✦	TO-252AA	N-Ch	400	3.1A	.55	.49	.43	.41
670127	IRFR420	✦	TO-252AA	N-Ch	500	2.4A	.69	.61	.43	.40
670135	IRFP450	✦	TO-247	N-Ch	500	14A	2.46	1.98	1.79	1.50
670143	IRFP460	✦	TO-247	N-Ch	500	20A	2.59	2.39	2.29	2.09
209234	IRF510	✦	TO-220	N-Ch	100	5.6A	.69	.59	.55	.49
209226	IRF520	✦	TO-220	N-Ch	100	10A	.56	.48	.45	.40
209058	IRL520N	✦	TO-220	N-Ch	100	10A	.68	.63	.56	.468
210500	IRF530	✦	TO-220	N-Ch	100	14A	.66	.57	.52	.49
670151	IRF530N	✦	TO-220AB	N-Ch	100	17A	.71	.58	.444	.37
670160	IRL530N	✦	TO-220AB	N-Ch	100	17A	.71	.549	.50	.464
210518	IRF540	✦	TO-220	N-Ch	100	27A	.78	.63	.57	.48
670178	IRF540NS	✦	D2PAK	N-Ch	100	33A	1.05	.90	.68	.64
670186	IRF540N	✦	TO-220	N-Ch	100	20A	1.26	.96	.87	.74
670194	IRL540N	✦	TO-220AB	N-Ch	100	30A	.89	.83	.78	.72
670207	IRFP610	✦	TO-220AB	N-Ch	200	3.3A	.49	.39	.35	.29
210526	IRF620	✦	TO-220	N-Ch	200	6.0A	.45	.42	.35	.264
670215	IRF624	✦	TO-220AB	N-Ch	250	4.4A	.65	.49	.45	.37
210534	IRF630	✦	TO-220	N-Ch	200	9.0A	.73	.65	.58	.43
210542	IRF640	✦	TO-220	N-Ch	200	18A	.79	.65	.60	.50
670223	IRF640NS	✦	D2PAK	N-Ch	200	18A	1.19	.99	.88	.69
670231	IRF644	✦	TO-220AB	N-Ch	250	14A	.82	.73	.61	.54
670240	IRF720	✦	TO-220AB	N-Ch	400	3.3A	.56	.45	.41	.34
210551	IRF730	✦	TO-220	N-Ch	400	5.5A	.59	.53	.47	.353
210569	IRF740	✦	TO-220	N-Ch	400	10A	1.25	1.10	.89	.80
210577	IRF820	✦	TO-220	N-Ch	500	4.0A	.48	.46	.43	.28
210585	IRF830	✦	TO-220	N-Ch	500	4.5A	.65	.62	.59	.44
184719	IRF840	✦	TO-220	N-Ch	500	8.0A	1.28	1.05	.88	.50
670258	IRF1010E	✦	TO-220AB	N-Ch	60	84A	1.55	1.40	1.26	1.15
670266	IRF1010N	✦	TO-220AB	N-Ch	55	85A	1.19	1.14	1.09	.99

✦ Jameco Value Offering

✦ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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## N-Channel & P-Channel MOSFETs (Cont.)

* Minimum order 10 pieces										
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100	1000
693695	IRF1010NL	✦	TO-262	N-Ch	55	85A ...	\$3.19	\$2.55	\$1.95	\$1.75
670274	IRF1310N	✦	TO-220AB	N-Ch	100	42A ....	1.29	1.03	.93	.78
670282	IRF1405	✦	TO-220AB	N-Ch	55	169A ....	3.19	2.86	2.39	1.85
670291	IRL2203N	✦	TO-220AB	N-Ch	30	116A ....	1.45	1.39	1.29	1.15
279460	VN2222LLⓈ	✦	TO-92	N-Ch	60	.75A .....23	.20	.16	.14	
670303	IRLML2402	✦	SOT-23	N-Ch	20	1.2A .....27	.204	.18	.156	
279478	VN2406LⓈ	✦	TO-92	N-Ch	240	1.0A .....55	.44	.34	.21	
670311	IRLL2705	✦	SOT-223	N-Ch	55	5.2A ....	1.31	1.24	1.07	1.00
670320	IRLML2803	✦	SOT-23	N-Ch	30	1.2A .....*	.15	.14	.13	
670338	IRF2807	✦	TO-220AB	N-Ch	75	82A ....	1.95	1.75	1.55	1.43
670346	IRL2910	✦	TO-220AB	N-Ch	100	55A ....	1.89	1.79	1.63	1.43
618089	IRF3205Ⓢ	✦	TO-220	N-Ch	55	110A ....	2.39	1.75	1.45	1.26
670354	IRF3415	✦	TO-220AB	N-Ch	150	43A ....	1.45	1.15	1.05	.89
618071	IRL3705Ⓢ	✦	TO-220	N-Ch	55	89A ....	1.37	1.23	.98	.74
670362	IRF3710	✦	TO-220AB	N-Ch	100	57A ....	1.29	1.05	.93	.85
670371	IRFPS37N50A	✦	Super-247	N-Ch	500	36A ....	6.95	6.19	5.15	4.75
670389	IRFL4310	✦	SOT-223	N-Ch	100	2.2A ....	1.29	1.05	.77	.72
670725	IRF7201	✦	SOIC-8	N-Ch	30	10A .....61	.58	.49	.41	
670397	IRF7401	✦	SOIC-8	N-Ch	20	10A .....53	.515	.487	.414	
670400	IRF7413	✦	SOIC-8	N-Ch	30	12A .....1.09	.79	.59	.52	
670418	IRF7455	✦	SOIC-8	N-Ch	30	15A .....95	.86	.72	.67	
670426	IRF7811A	✦	SOIC-8	N-Ch	28	11A .....85	.77	.64	.59	
670434	IRFD9120	✦	DIP-4	N-Ch	100	1.4A .....61	.58	.57	.54	
178669	2N7000Ⓢ	FSC	TO-92	N-Ch	60	0.2A .....25	.194	.136	.122	
119423	2N7000✦	✦	TO-92	N-Ch	60	0.3A .....*	.11	.10	.09	
140169	2N7002✦	✦	SOT-23	N-Ch	60	0.5A .....*	.084	.063	.038	
700091	SUB75P03-07Ⓢ	VSH	TO-263	P-Ch	-30	-120A ..	4.77	3.97	3.74	3.59
256057	BS250Ⓢ	✦	TO-92	P-Ch	-45	— .....37	.34	.30	.20	
255046	SI4435DYⓈ	✦	SOIC-8	P-Ch	-30	-40A .....60	.496	.45	.388	
255054	SI4463DYⓈ	✦	SOIC-8	P-Ch	-20	-30A .....1.65	1.58	1.44	1.31	
670442	IRF4905	✦	TO-220AB	P-Ch	-55	-74A ....	2.10	1.96	1.84	1.52
670451	IRF4905S	✦	D2PAK	P-Ch	-55	-74A ....	2.58	1.98	1.67	1.43
670469	IRLML5103	✦	SOT-23	P-Ch	-30	-0.76A .....*	.16	.15	.14	
670477	IRF5210	✦	TO-220AB	P-Ch	-100	-40A ....	1.70	1.37	1.32	1.29
670485	IRF5305	✦	TO-220AB	P-Ch	-55	-31A ....	1.29	1.19	1.13	1.07
670493	IRFR5305	✦	TO-252AA	P-Ch	-55	-31A .....95	.89	.84	.71	
670506	IRFR5410	✦	TO-252AA	P-Ch	-100	-13A .....59	.50	.45	.37	
670514	IRLML6302	✦	SOT-23	P-Ch	-20	-0.78A ....22	.17	.15	.13	
670522	IRLML6401	✦	SOT-23	P-Ch	-12	-12A .....31	.25	.22	.18	
670531	IRF7404	✦	SOIC-8	P-Ch	-20	-7.7A .....66	.59	.492	.44	
670549	IRF7416	✦	SOIC-8	P-Ch	-30	-10A .....1.26	.88	.72	.69	
670557	IRFL9014	✦	SOT-223	P-Ch	-60	-19A .....79	.51	.39	.33	
670565	IRFR9024	✦	TO-252AA	P-Ch	-60	-8.8A .....72	.63	.57	.47	
670573	IRFR9024N	✦	TO-252AA	P-Ch	-55	-11A .....63	.51	.45	.38	
670581	IRFR9234N	✦	TO-220AB	P-Ch	-55	-1.8A .....70	.66	.62	.52	
670590	IRFR9120	✦	TO-252AA	P-Ch	-100	-5.6A .....65	.59	.52	.43	
670602	IRFR9120N	✦	TO-252AA	P-Ch	-100	-6.6A .....61	.43	.36	.33	
670611	IRFR9220	✦	TO-252AA	P-Ch	-200	-3.6A ....1.19	1.09	.90	.86	
670629	IRF9520	✦	TO-220AB	P-Ch	-100	6A .....99	.92	.86	.77	
670741	IRF9530	✦	TO-220AB	P-Ch	-100	-12A .....68	.55	.49	.41	
670637	IRF9530N	✦	TO-220AB	P-Ch	-100	-14A .....79	.62	.55	.46	
670645	IRF9540N	✦	TO-220AB	P-Ch	-100	-23A ....1.19	1.03	.92	.77	
670653	IRF9640	✦	TO-220AB	P-Ch	-200	-11A ....	1.29	1.22	1.18	1.15
670661	IRF7103	✦	SOIC-8	Dual N-Ch	50	3A .....43	.39	.32	.29	
670670	IRF7303	✦	SOIC-8	Dual N-Ch	30	5.3A .....75	.66	.47	.45	
670696	IRF7313	✦	SOIC-8	Dual N-Ch	30	6.5A .....85	.77	.64	.59	
670688	IRF7306	✦	SOIC-8	Dual P-Ch	-30	-4A .....75	.60	.42	.40	
670709	IRF7314	✦	SOIC-8	Dual P-Ch	-20	-5.3A .....82	.58	.48	.45	
670733	IRF7105	✦	SOIC-8	Dual NP-Ch	25/-25	3.5/-2.3A ....	.42	.384	.36	.336
670717	IRF7309	✦	SOIC-8	Dual NP-Ch	30/-30	4.7/-3.5A ....	.73	.65	.46	.43

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600),  
20 clear plastic drawers (319601),  
20 clear dividers (319611), pg 207 and  
30 adhesive labels for drawers to identify parts in kit

SAVE \$14



10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000,  
MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120  
100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$75.95	\$74.59
130374	Refill for 82595 (560 pcs.)	0.4	83.94	75.54



## Heat Sinks

For more Wakefield  
Heat Sinks visit  
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NEW



## Low-Power

Part No.	Cross Ref. No.	Description	Size (L" x W" x H")	* Minimum order 10 pieces	1	10	100
1582591	217-36CT6	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	*	\$ .30	\$ .276	
1582604	21736CTE6	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	*	.38	.349	
1582612	218-40CT3	Surface Mount	.32 x .90 x .40	*	.45	.421	
1582621	218-40CT5	Surface Mount	.50 x 1.03 x .40	*	.35	.32	
1582639	230-75AB	TO-220, LP, vert/horiz mnt	.50 x .57 x .75	*	.23	.214	
1582647	262-75AB-05	TO-220, horizontal mount	.50 x .75 x .53	*	.28	.261	
1582655	274-2AB	TO-220, low-cost, low-height	.75 x .52 x .38	*	.27	.245	
1582671	288-1ABE	TO-220/TO-202 compact	.22 x .88 x 1.25	1.09	1.02	.95	
1582680	289-ABE	TO-218/TO-202/TO-220	.71 x 1.00 x .50	*	.40	.368	
1582663	287-1AB	TO-220, low-cost	.50 x 1.00 x 1.18	1.18	1.11	1.04	

## High-Power

Part No.	Cross Ref. No.	Description	Size (L" x W" x H")	1	10	100
1582743	637-15ABP	TO-220, high-eff., vertical	.50 x 1.38 x 1.00	1.58	1.47	1.38
1582751	637-15ABPE	TO-220, high-eff., vertical	.50 x 1.38 x 1.00	1.68	1.57	1.47
1582840	667-10ABPP	TO-220, SpeedCLIP™	.50 x 1.38 x 1.00	1.78	1.66	1.55
1582760	647-15ABP	TO-220, high-performance	1.00 x 1.65 x 1.50	1.07	1.00	.94

## BGA

Part No.	Cross Ref. No.	Description	Size (L" x W" x H")	1	10	100
1582698	624-35ABT4	Omni-directional pin fin for 21mm	.83 x .83 x .35	\$2.13	\$1.99	\$1.86
1582701	625-25ABT4	Omni-directional pin fin for 25mm	.98 x .98 x .25	2.27	2.12	1.99
1582719	625-35AB	Omni-directional pin fin for 25mm	.984 x .98 x .35	1.38	1.29	1.21
1582794	658-35AB	Omni-directional pin fin for 27mm	1.10 x 1.10 x .35	.99	.92	.87
1582807	658-45ABT4	Omni-directional pin fin for 27mm	1.10 x 1.10 x .45	2.54	2.37	2.23
1582815	658-60AB	Omni-directional pin fin for 27mm	1.10 x 1.10 x .60	1.15	1.07	1.00
1582823	658-60ABT2	Omni-directional pin fin for 27mm	1.10 x 1.10 x .60	3.15	2.94	2.76
1582831	659-65ABT1	Unidirectional pin fin for 37mm	1.45 x 1.45 x .65	1.68	1.57	1.47

## DIP

Part No.	Cross Ref. No.	Description	Size (L" x W" x H")	1	10	100
1582778	651-B	14/16-pin DIP & SRAM extruded	.25 x .74 x .24	\$.71	\$.67	\$.62

## Accessories

Part No.	Cross Ref. No.	Description	1	10	100
1582541	120-8	Silicon oil-based compound 8oz. jar	\$28.26	\$26.38	\$24.73
1582559	173-7-220P	DeltaPAD™ insulator for TO-220	*	.27	.247
1582575	175-6-240-P	KAPTON™ reinforced insulator for TO-220	*	.25	.226

## Heat Sinks

A Jameco  
EXCLUSIVE

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297 which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622 and 228005 can be mounted vertically with solderable mounting tabs.



Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
326668	577500B00000	TO-126	—	\$.33	\$ .297	\$ .27	\$ .243
326633	577304B00000	TO-202	0.52 x 0.38 x 0.75	.29	.21	.205	.196
326684	566010B03400	TO-218	1.00 x 0.51 x 1.22	.99	.89	.76	.68
326757	529801B02500	TO-218	1.64 x 0.98 x 1.51	1.02	.98	.83	.71
326772	530101B00150	TO-218	1.75 x 0.49x 1.75	1.11	1.09	.94	.79
320320	BK-ALU-0034-001	TO-220	1.80 x 1.50 x 0.40	.30	.285	.279	.209
326596	507302B00000	TO-220	0.75 x 0.38 x 0.74	.25	.23	.20	.18
326609	577002B00000	TO-220	0.51 x 0.25 x 0.75	.32	.231	.208	.185
326626	577202B00000	TO-220	0.51 x 0.49 x 0.75	★	Call	Call	Call
326641	577002B04000	TO-220	0.53 x 0.50 x 0.76	.30	.284	.259	.235
326650	577102B04000	TO-220	0.52 x 0.38 x 0.75	.36	.324	.26	.235
326676	593002B03400	TO-220	—	.56	.484	.407	.305
326693	531002B05200	TO-220	1.38 x 0.50 x 1.00	.84	.75	.65	.495
326713	531102B02500	TO-220	1.38 x 0.50 x 1.51	.92	.90	.88	.74
326748	531202B02500	TO-220	1.37 x 0.49 x 2.00	.95	.86	.77	.58
326765	531302B02500	TO-220	1.38 x 0.50 x 2.50	.92	.90	.77	.65

## Other Manufacturers — Great Deals

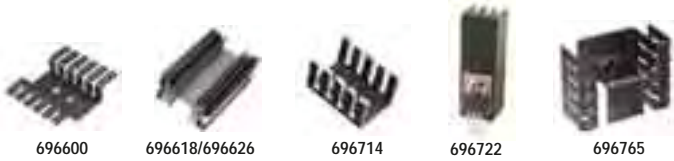
Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
16513	DUDE4	TO-3	4.80 x 1.50 x 1.30	\$3.69	\$3.43	\$3.10	\$2.80
151547	635-125B2	TO-3	1.90 x 1.40 x 1.30	1.45	1.26	1.07	.96
189835	635-5B2	TO-3	1.90 x 1.40 x 0.50	.70	.63	.57	.55
70914	THM6106	TO-220	1.20 x 1.00 x 0.50	.42	.353	.279	.259
129242	THM6106	TO-220	1.20 x 1.00 x 0.50	.55	.51	.44	.39
42622	563002B00000	TO-220	1.20 x 1.00 x 0.50	.33	.291	.273	.254
228005	BK-T220	TO-220	1.20 x 1.00 x 0.50	.38	.316	.21	.193
40504	291-H-36AB	TO-220	0.90 x 1.00 x 0.40	.76	.55	.477	.405
158051	577102B00000	TO-220	0.75 x 0.52 x 0.38	.39	.35	.28	.21
70658	THM6073	TO-220	0.80 x 0.70 x 0.40	.29	.269	.26	.25
107297	PSC2-U (cup-style)	TO-220	0.80 x 1.00 x 0.40	.49	.44	.35	.26

★ Please call or visit our website for minimum order quantity and pricing









## Heat Sinks

For more Aavid Thermalloy Heat Sinks visit [www.Jameco.com](http://www.Jameco.com)

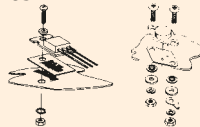


\* Minimum order 10 pieces

Part No.	Product No.	Type	Size (L" x W" x H")	1	10	100	250
696600	5072228B00000G 	Dual TO-220	1.47 x 1.75 x .375	..... \$ .39	\$ .381	\$ .375	\$ .37
696618	529802B02500 	TO-220	1.50 x 1.65 x 1.00	..... 1.26	1.16	1.14	1.12
696626	530002B02500 	TO-220	2.52 x 1.65 x 1.00	..... 1.45	1.33	1.31	1.29
696714	577002B00000G 	TO-220	0.75 x 0.52 x 0.25	..... *	.242	.235	.228
696722	581002B02500G 	TO-220	1.00 x 0.64 x 0.64	..... 1.19	1.06	1.03	1.01
696765	7109DG 	SMD	.763 x 1.00 x 0.45	..... 1.04	.98	.97	.95

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack



Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	\$3.95	\$3.55	\$3.19
34139	TO-3	12 pcs per kit	2.65	2.34	2.11



## Small Signal Diodes

Part No.	Product No.	Mfr.	Pkg.	Description	10	100	500	1000
655728	BAV20	♦	DO-35	200VRRM, 0.2A	\$ .029	\$ .017	\$ .014	\$ .013
655859	BAV21	♦	DO-35	250VRRM, 0.2A	.029	.017	.014	.013
655963	BAY71	♦	DO-35	50VRRM, 0.3A	.033	.017	.014	.013
655605	BAY72	♦	DO-35	125VRRM, 0.2A	.033	.017	.014	.013
655613	BAY73	♦	DO-35	125VRRM, 0.5A	.033	.017	.014	.013
656173	BAW74	♦	SOT-23	50VRRM, 0.2A	.057	.025	.023	.02
655939	1N456A	♦	DO-35	30VRRM, 0.5A	.029	.017	.014	.011
655998	FDLL457A	♦	LL-34	70VRRM, 0.2A	.034	.023	.02	.019
655971	1N457	♦	DO-35	70VRRM, 0.2A	.029	.017	.014	.012
655980	1N457A	♦	DO-35	70VRRM, 0.2A	.029	.017	.014	.012
655630	1N458A	♦	DO-35	150VRRM, 0.5A	.029	.017	.014	.012
655779	1N459	♦	DO-35	200VRRM, 0.5A	.029	.017	.014	.012
655787	1N459A	♦	DO-35	200VRRM, 0.5A	.031	.017	.014	.012
655841	1N486B	♦	DO-35	250VRRM, 0.2A	.035	.017	.014	.013
655331	FDLL914	♦	LL-34	100VRRM, 0.2A	*	Call	Call	Call
179207	1N914	⊕	VSH	DO-35	.05	.025	.016	.014
36311	1N914	**	♦	DO-35	.022	.018	.014	.01
655269	1N914A	♦	DO-35	100VRRM, 0.2A	.025	.015	.013	.009
655277	1N914B	♦	DO-35	100VRRM, 0.2A	.039	.017	.014	.012
655285	1N916	♦	DO-35	100VRRM, 0.2A	.025	.015	.013	.009
655293	1N916A	♦	DO-35	100VRRM, 0.2A	.03	.019	.017	.014
655306	1N916B	♦	DO-35	100VRRM, 0.2A	.025	.015	.013	.009
656106	MMBD1205	♦	SOT-23	100VRRM, 0.2A	*	Call	Call	Call
656270	MMBD2838	♦	SOT-23	75VRRM, 0.2A	.057	.025	.023	.019
656018	1N3064	♦	DO-35	75VRRM, 0.3A	.019	.017	.014	.013
655761	1N3070	♦	DO-35	200VRRM, 0.5A	.033	.017	.014	.013
655314	FDLL4148	♦	LL-34	100VRRM, 0.2A	*	Call	Call	Call
656202	MMBD4148CC	♦	SOT-23	100VRRM, 0.2A	*	Call	Call	Call
656296	MMBD4148SE	♦	SOT-23	100VRRM, 0.2A	*	Call	Call	Call
655411	MMSD4148	♦	SOD-123	100VRRM, 0.6A	*	Call	Call	Call
655390	1N4149	♦	DO-35	100VRRM, 0.3A	.019	.013	.009	.008
655955	1N4152	♦	DO-35	40VRRM, 0.2A	.028	.017	.014	.011
656026	1N4305	♦	DO-35	75VRRM, 0.3A	.019	.013	.008	.007
655322	FDLL4448	♦	LL-34	100VRRM, 0.2A	.039	.017	.014	.013
655242	1N4448	♦	DO-35	100VRRM, 0.2A	.019	.013	.008	.007
655795	1N4938	♦	DO-35	200VRRM, 0.5A	.035	.017	.014	.013

♦ Jameco Value Offering VSH = Vishay \*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 44

\* Please call or visit our website for minimum order quantity and pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New Sale Lower\$ QtySave**

## Zener Diodes

						• Minimum order 10 pieces			
Part No.	Product No.	Mfr.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	10	100	500	1000
36290	1N751A <b>R</b> *	♦	DO-35	5.1V	0.5W	<b>\$.03</b>	<b>\$.022</b>	<b>\$.019</b>	<b>\$.016</b>
178765	1N4730A <b>R</b>	♦	DO-41	3.9V	1W	.06	.035	.025	.022
178773	1N4732A <b>⊕</b>	VSH	DO-41	4.7V	1W	.088	.069	.056	.044
36097	1N4733A <b>R</b> *	♦	DO-41	5.1V	1W	.08	.065	.042	.026
36118	1N4734A <b>R</b>	♦	DO-41	5.6V	1W	.073	.055	.05	.045
178802	1N4735A <b>⊕</b>	VSH	DO-41	6.2V	1W	.049	.044	.04	.036
36126	1N4735A <b>R</b> *	♦	DO-41	6.2V	1W	<b>\$.03</b>	<b>\$.027</b>	<b>\$.026</b>	<b>\$.025</b>
178837	1N4739A <b>R</b>	♦	DO-41	9.1V	1W	.057	.038	.032	.029
36169	1N4742A <b>R</b> *	♦	DO-41	12V	1W	<b>\$.074</b>	<b>\$.059</b>	<b>\$.048</b>	<b>\$.034</b>
36185	1N4744A <b>⊕</b>	♦	DO-41	15V	1W	.058	.035	.026	.021
179039	1N5230B	♦	DO-35	4.7V	0.5W	<b>\$.03</b>	<b>\$.026</b>	<b>\$.021</b>	<b>\$.016</b>
179047	1N5231B <b>⊕</b>	♦	DO-35	5.1V	0.5W	.04	.035	.03	.027
♦ Jameco Value Offering		VSH = Vishay		* 10 pcs. in Diode/Rectifier cabinet kit, pg 44					

♦ Jameco Value Offering VSH = Vishay \* 10 pcs. in Diode/Rectifier cabinet kit, pg 44

## Diodes

Part No.	Product No.	Mfr.	Pkg.	Description	1	10	100	1000
140185	BAS16	♦	SOT-23	70PRV, 1A (Switching)	* \$ .041	\$ .033	\$ .025	
655576	BAS19	♦	SOT-23	120VRM, 0.2A (Switching)	*	.041	.025	.022
655592	BAV19	♦	DO-35	120BV, 0.2A (General purpose)	*	.033	.017	.014
655875	BAS21	♦	SOT-23	250BV, 0.6A (General purpose)	*	Call	Call	Call
656350	BAV23S	♦	SOT-23	250VRRM, 0.2A (General purpose)	*	Call	Call	Call
656317	BAS31	♦	SOT-23	120BV, 0.2A (General purpose)	*	Call	Call	Call
656034	BAW62	♦	DO-35	75VRRM, 0.3A (Switching)	*	.033	.017	.014
656253	BAV74	♦	SOT-23	50BV, 0.2A (Ultrafast)	*	.059	.025	.023
655808	BAV102	♦	LL-34	200BV, 0.5A (General purpose)	*	.057	.025	.023
655867	BAV103	♦	LL-34	250BV, 0.5A (General purpose)	*	.057	.025	.023
35941	1N270	⊕	DO-7	80PRV (Germanium)	.99	.86	.74	.61
655648	FDH300	♦	DO-35	150BV, 0.5A (Low leakage)	*	.041	.025	.023
655664	FDH333	♦	DO-35	150BV, 0.5A (Low leakage)	*	.041	.025	.023
655816	FDH400	♦	DO-35	200BV, 0.5A (General purpose)	*	.041	.025	.023
656069	FDH600	♦	DO-35	75BV, 0.4A (Ultrafast)	*	.033	.017	.016
655904	FDH700	♦	DO-35	30BV, 0.15A (Ultrafast)	*	.041	.025	.023
312101	MBR1100	⊕	DO-41	100PRV, 1.0A (Schottky)	.26	.234	.187	.14
655365	MMBD1201	♦	SOT-23	100BV, 0.2A (Ultrafast)	*	Call	Call	Call
656288	MMBD1203	♦	SOT-23	100BV, 0.2A (Ultrafast)	*	Call	Call	Call
656325	MMBD1403	♦	SOT-23	200BV, 0.2A (General purpose)	*	Call	Call	Call
656211	MMBD1404	♦	SOT-23	200BV, 0.2A (General purpose)	*	Call	Call	Call
655744	MMBD1501A	♦	SOT-23	200BV, 0.2A (Low leakage)	*	.041	.025	.023
656245	MMBD1704A	♦	SOT-23	30BV, 0.05A (Low leakage)	*	.049	.025	.023
656165	MMBD1705	♦	SOT-23	30BV, 0.05A (Low leakage)	*	.049	.025	.023
179215	1N4148	⊕	VSH	DO-35	.04	.032	.024	
36038	1N4148	**	♦	DO-35	.036	.028	.021	
151247	1N4148T	⊕	DO-35	75PRV, 0.01A (Switching)	*	.009	.009	.009
656077	FDLL4150	♦	LL-34	75BV, 0.4A (Ultrafast)	*	Call	Call	Call
656042	1N4150	♦	DO-35	75BV, 0.4A (Ultrafast)	*	.033	.017	.014
656000	1N4151	♦	DO-35	75VRRM, 0.15A (Switching)	*	.033	.017	.014
655947	1N4154	♦	DO-35	35BV, 0.3A (Switching)	*	.019	.014	.008
656051	1N4454	♦	DO-35	75BV, 0.4A (Ultrafast)	*	.029	.017	.014
656309	MMBD7000	♦	SOT-23	100BV, 0.2A (Ultrafast)	*	Call	Call	Call

♦ Jameco Value Offering VSH = Vishay \* 10 pcs. in Diode/Rectifier cabinet kit, pg 44

\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 44 # Taped-ammo style: order in increments of 1000

\* Please call or visit our website for minimum order quantity and pricing

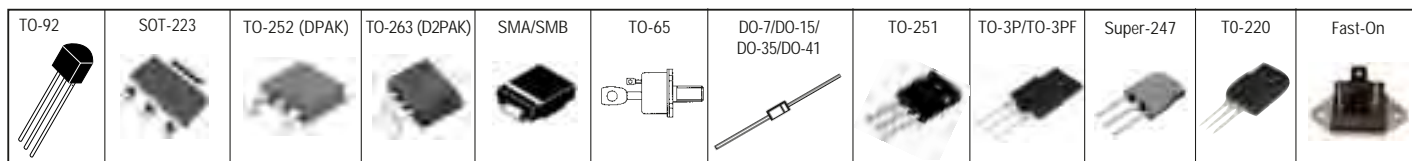


## Diodes

**NEW**

For more Fairchild Diodes visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref.	Pkg.	Description	1	5	50
875093	RHRP1560	TO-220AC	600VRRM, 15A (hyperfast)	\$1.15	\$1.07	\$ .90
787940	RURP3020	TO-220AC	200VRRM, 30A (hyperfast)	1.89	1.72	1.45
787886	RHRG5060	TO-247	600VRRM, 50A (hyperfast)	4.15	3.81	3.21
787915	RHRP8120	TO-220AC	1200VRRM, 8A (hyperfast)	.95	.87	.73
787860	RHRG30120	TO-247	1200VRRM, 30A (hyperfast)	2.25	2.09	1.76
787907	RHRP30120	TO-220AC	1200VRRM, 30A (hyperfast)	1.95	1.81	1.52



## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 207 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M  
 100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587	420 pcs. (15 types) diode kit	5.0	\$42.95	\$38.95
130366	Refill for 82587 (420 pcs.)	0.3	31.14	26.76

SAVE 9%



## Transient Voltage Suppressors

Part No.	Product No. *	Watts	Pkg.	Min. Brkdwv Volt. (V <sub>BR</sub> )	Stand-Off Voltage	1	10	100	1000
254908	SA28A	500	DO-15	31.1	28	\$0.21	\$0.20	\$0.153	\$0.103
256663	P6KE6.8A	600	DO-15	6.45	5.8	.17	.14	.116	.10
255847	P6KE24CA	600	DO-15	22.8	20.5	.23	.204	.164	.125
255775	P6KE33CA	600	DO-15	31.4	28.2	.26	.25	.23	.187
255951	P6KE150CA	600	DO-15	143.0	128	.21	.16	.14	.10
255839	P6KE250CA	600	DO-15	237.0	214	.28	.24	.19	.15
618118	1N5908	1500	DO-41	6.0	—	.69	.62	.358	.322

## SanRex® Through Hole - Standard Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657037	TMG5C60	TO-220AB	Non-isolated 5A, 600V	\$1.38	\$1.21	\$0.93
657045	TMG5C80	TO-220AB	Non-isolated 5A, 800V	1.55	1.38	1.23
657053	TMG8C60	TO-220AB	Non-isolated 8A, 600V	.85	.80	.74
657061	TMG8C80	TO-220AB	Non-isolated 8A, 800V	1.55	1.48	1.31
657070	TMG10C60	TO-220AB	Non-isolated 10A, 600V	1.49	1.39	1.27
657088	TMG10C80	TO-220AB	Non-isolated 10A, 800V	.71	.67	.64
657096	TMG12C60	TO-220AB	Non-isolated 12A, 600V	.90	.84	.77
657109	TMG12C80	TO-220AB	Non-isolated 12A, 800V	1.00	.93	.86
657117	TMG16C60	TO-220AB	Non-isolated 16A, 600V	1.07	1.00	.91
657125	TMG16C80	TO-220AB	Non-isolated 16A, 800V	1.03	.96	.90
657133	TMG20C60	TO-220AB	Non-isolated 20A, 600V	1.29	1.19	1.09
657150	TMG3C60F	TO-220F	Isolated 3A, 600V	1.07	.95	.86
657176	TMG5C60F	TO-220F	Isolated 5A, 600V	.90	.84	.78
657184	TMG5C80F	TO-220F	Isolated 5A, 800V	1.39	1.29	1.23
657192	TMG8C60F	TO-220F	Isolated 8A, 600V	.86	.81	.76
657205	TMG8C80F	TO-220F	Isolated 8A, 800V	1.79	1.63	1.45
657213	TMG10C60F	TO-220F	Isolated 10A, 600V	1.69	1.53	1.37
657221	TMG10C80F	TO-220F	Isolated 10A, 800V	.99	.92	.86
657256	TMG16C60F	TO-220F	Isolated 16A, 600V	1.49	1.33	1.02
657264	TMG16C80F	TO-220F	Isolated 16A, 800V	1.15	1.08	1.01
657272	TMG20C60F	TO-220F	Isolated 20A, 600V	1.49	1.40	1.30
657310	TMG16C60L	TO-3P	Non-isolated 16A, 600V	4.45	3.94	3.64
657328	TMG16C80L	TO-3P	Non-isolated 16A, 800V	3.59	3.14	2.70
657336	TMG25C60L	TO-3P	Non-isolated 25A, 600V	4.45	3.94	3.64
657344	TMG25C80L	TO-3P	Non-isolated 25A, 800V	3.75	3.28	2.82
657352	TMG16C60J	TO-3PF	Isolated 16A, 600V	4.45	3.94	3.64
657361	TMG16C80J	TO-3PF	Isolated 16A, 800V	3.25	2.85	2.45
657379	TMG25C60J	TO-3PF	Isolated 25A, 600V	4.05	3.58	3.31
657387	TMG25C80J	TO-3PF	Isolated 25A, 800V	3.25	2.85	2.45

\* For cross references to Littelfuse, ST, and ON-Semi products, refer to datasheets @ Jameco.com.

## Troubleshooting & Repairing Consumer Electronics without a Schematic

**TAB Publishing** Learn how to locate, test & repair defective components in audio amps, compact disc players & more. (475 pages, 1997)

Part No.	Description	Size	Wt. (lbs.)	Price
136080	Troubleshooting & Repairing	7.4" x 9.3"	1.1	\$24.95



## SanRex® Fast-On Package Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658187	TG25E40	Fast-On	Isolated 25A, 400V	\$6.59	\$5.81	\$5.39
658195	TG25E60	Fast-On	Isolated 25A, 600V	6.59	5.81	5.39
658208	TG35E40	Fast-On	Isolated 35A, 400V	6.19	5.47	5.06
658216	TG35E60	Fast-On	Isolated 35A, 600V	7.99	7.09	6.55
658241	TG25F40	Fast-On	Isolated 25A, 400V	5.09	4.49	4.15
658259	TG25F60	Fast-On	Isolated 25A, 600V	5.09	4.49	4.15
658267	TG35F40	Fast-On	Isolated 35A, 400V	7.99	7.09	6.55
658275	TG35F60	Fast-On	Isolated 35A, 600V	7.29	6.44	5.95

## SanRex® Through Hole - Sensitive Gate Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657395	TMG5D60	TO-220AB	Non-isolated 5A, 600V	\$0.70	\$0.65	\$0.61
657424	TMG8D80	TO-220AB	Non-isolated 8A, 800V	1.31	1.15	.89
657432	TMG10D60	TO-220AB	Non-isolated 10A, 600V	.86	.81	.75
657459	TMG12D60	TO-220AB	Non-isolated 12A, 600V	1.35	1.19	.93
657483	TMG16D80	TO-220AB	Non-isolated 16A, 800V	.86	.81	.74
657491	TMG20D60	TO-220AB2	Non-isolated 20A, 600V	1.21	1.12	1.05
657539	TMG3D60F	TO-220F	Isolated 3A, 600V	1.08	1.05	.88
657555	TMG5D60F	TO-220F	Isolated 5A, 600V	1.23	1.10	.85
657571	TMG8D60F	TO-220F	Isolated 8A, 600V	.88	.83	.76
657598	TMG10D60F	TO-220F	Isolated 10A, 600V	1.22	1.09	.99
657619	TMG12D60F	TO-220F	Isolated 12A, 600V	.82	.75	.68
657635	TMG16D60F	TO-220F	Isolated 16A, 600V	.83	.77	.68
657643	TMG16D80F	TO-220F	Isolated 16A, 800V	.83	.78	.73
657651	TMG20D60F	TO-220F	Isolated 20A, 600V	1.21	1.12	1.05
657694	TMG16D60L	TO-3P	Non-isolated 16A, 600V	3.45	3.05	2.81
657707	TMG16D80L	TO-3P	Non-isolated 16A, 800V	2.75	2.42	2.08
657715	TMG25D60L	TO-3P	Non-isolated 25A, 600V	3.45	3.04	2.82
657723	TMG25D80L	TO-3P	Non-isolated 25A, 800V	2.75	2.42	2.08
657731	TMG16D60J	TO-3PF	Isolated 16A, 600V	3.45	3.04	2.81
657740	TMG16D80J	TO-3PF	Isolated 16A, 800V	2.75	2.42	2.08
657758	TMG25D60J	TO-3PF	Isolated 25A, 600V	3.45	3.04	2.81
657766	TMG25D80J	TO-3PF	Isolated 25A, 800V	2.75	2.42	2.08

## SanRex® Surface Mount Device - Sensitive Gate Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657918	TMG2D60D	TO-252 DPAK	Non-isolated 2A, 600V	\$0.99	\$0.87	\$0.66
657926	TMG2D80D	TO-252 DPAK	Non-isolated 2A, 800V	.82	.68	.55
657934	TMG3D60D	TO-252 DPAK	Non-isolated 3A, 600V	.99	.87	.66
658056	TMG16D60H	TO-263 D2PAK	Non-isolated 16A, 600V	1.21	1.12	1.05

## SanRex® Surface Mount Device - Standard Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657774	TMG3C60D	TO-252 DPAK	Non-isolated 3A, 600V	\$0.95	\$0.84	\$0.65
657791	TMG5C60D	TO-252 DPAK	Non-isolated 5A, 600V	.95	.84	.65
657838	TMG8C60H	TO-263 D2PAK	Non-isolated 8A, 600V	1.25	1.05	.88
657871	TMG12C60H	TO-263 D2PAK	Non-isolated 12A, 600V	.69	.63	.57
657897	TMG16C60H	TO-263 D2PAK	Non-isolated 16A, 600V	1.21	1.12	1.05

## SanRex® Surface Mount Device - T<sub>J</sub> = 150° Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
664616	TMG2CQ60D	TO-252 DPAK	Non-isolated 3A, 600V	\$0.99	\$0.87	\$0.66
658072	TMG2DQ60D	TO-252 DPAK	Non-isolated 2A, 600V	.99	.87	.66
658081	TMG3CQ60D	TO-252 DPAK	Non-isolated 3A, 600V	.99	.87	.66
658099	TMG3DQ80D	TO-252 DPAK	Non-isolated 3A, 800V	.99	.87	.66
658128	TMG8CQ60H	TO-263 D2PAK	Non-isolated 8A, 600V	1.25	1.05	.88

\* For cross references to Littelfuse, ST, and ON-Semi products, refer to datasheets.

## Triacs

Part No.	Product No.	Mfr.	Pkg.	Type	Rating	1	10	100
31819	SC146B	♦	TO-220	Triac	200 V <sub>DRM</sub> , 10A (2N6342)	\$1.29	\$1.15	\$ .99
31827	SC146M	♦	TO-220	Triac	600 V <sub>DRM</sub> , 10A (2N6344)	1.99	1.79	1.61
160207	Q4008L4	⊕	TEC	TO-220AB	400 V <sub>DRM</sub> , 8A	1.07	.92	.69
220492	Q4008R4	⊕	TEC	TO-220AB	400 V <sub>DRM</sub> , 8A	.80	.71	.68
139336	Q4015L5	♦	TO-220AB	Triac	400 V <sub>DRM</sub> , 15A	1.55	1.36	1.25
160215	Q6008L5	⊕	TEC	TO-220AB	600 V <sub>DRM</sub> , 8A	1.39	1.25	1.12
160231	Q6015L5	⊕	TEC	TO-220AB	600 V <sub>DRM</sub> , 15A	1.59	1.44	1.08
220505	Q6025R6	⊕	TEC	TO-220AB	600 V <sub>DRM</sub> , 25A	1.89	1.66	1.55
220521	Q6035P5	⊕	TEC	TO-3	600 V <sub>DRM</sub> , 35A	7.98	6.78	5.09
140425	2N6071A	♦	TO-225AA	Triac	200 V <sub>DRM</sub> , 4A	.35	.29	.27

♦ Jameco Value Offering TEC = Teccor

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## ON Semiconductor Triacs

				* Minimum order 5 pieces		
Part No.	Cross Ref.	Pkg.	Rating	1	5	50
806101	2N6344♣	TO-220AB	600VDRM, 8A .....	\$1.24	\$1.16	\$1.08
806127	2N6344A♣	TO-220AB	600VDRM, 12A .....	.98	.89	.86
885566	2N6348A♣	TO-220AB	600VDRM, 12A .....	1.07	.88	.84
806143	2N6348AG♣♣	TO-220AB	600VDRM, 12A .....	1.07	.97	.88
808051	MAC8D♣	TO-220AB	400VDRM, 8A .....	.64	.58	.53
808085	MAC8M♣	TO-220AB	600VDRM, 8A .....	.70	.66	.63
808114	MAC8N♣	TO-220AB	800VDRM, 8A .....	.72	.69	.89
808149	MAC8NG♣♣	TO-220AB	800VDRM, 8A .....	.72	.69	.89
808173	MAC8SMG♣♣	TO-220AB	600VDRM, 8A .....	.76	.71	.65
886542	MAC12Mv	TO-220AB	600VDRM, 12A .....	.63	.57	.52
807808	MAC15A8♣	TO-220AB	600VDRM, 15A .....	1.10	1.00	.91
807832	MAC16N♣	TO-220AB	800VDRM, 16A .....	.99	.93	1.32
807867	MAC210A8♣	TO-220AB	600VDRM, 10A .....	1.05	.95	.85
807904	MAC212A8G♣♣	TO-220AB	600VDRM, 12A .....	1.28	1.20	1.86
807939	MAC228A10♣	TO-220AB	800VDRM, 8A .....	.88	.80	.73
807998	MAC228A4G♣♣	TO-220AB	200VDRM, 8A .....	.83	.77	.72
886551	MAC228A6♣	TO-220AB	400VDRM, 8A .....	1.00	.93	.87
808026	MAC228A8♣	TO-220AB	600VDRM, 8A .....	.72	1.27	1.14
808202	MAC97A4♣	TO-92	200VDRM, 0.6A .....	*	.133	.122
808237	MAC97A6♣	TO-92	400VDRM, 0.6A .....	*	.143	.13
808261	MAC97A8♣	TO-92	600VDRM, 0.6A .....	*	.164	.176


## ON Semiconductor SCRs


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				* Minimum order 5 pieces		
Part No.	Cross Ref.	Pkg.	Rating	1	5	50
806207	2N6394♣	TO-220AB	50VDRM, 12A .....	\$ .93	\$ .87	\$ .87
885582	2N6397♣	TO-220AB	400VDRM, 12A .....	1.00	.93	.87
806223	2N6399♣	TO-220AB	800VDRM, 8A .....	.90	.87	.80
806240	2N6400♣	TO-220AB	50VDRM, 16A .....	.93	.85	.78
806266	2N6401♣	TO-220AB	100VDRM, 16A .....	1.07	1.01	.91
806291	2N6402♣	TO-220AB	200VDRM, 16A .....	1.07	1.01	.91
806311	2N6403♣	TO-220AB	400VDRM, 16A .....	1.11	1.01	.91
806338	2N6404♣	TO-220AB	600VDRM, 16A .....	.99	.89	.82
885638	2N6504♣	TO-220AB	50VDRM, 25A .....	.97	.88	.80
806397	2N6505♣	TO-220AB	100VDRM, 25A .....	.93	.84	.81
806418	2N6507T♣	TO-220AB	400VDRM, 25A .....	1.07	1.01	1.38
806434	2N6508♣	TO-220AB	600VDRM, 25A .....	.99	.90	.82
885654	2N6509♣	TO-220AB	800VDRM, 25A .....	1.11	1.01	.91
877646	MCR08BT1♣	SOT-223	200VDRM, 0.8A .....	★	Call	Call
798374	MCR8N♣	TO-220AB	800VDRM, 8A .....	.64	.52	.51
798382	MCR8SD♣	TO-220AB	400VDRM, 8A .....	.68	.63	.95
798403	MCR8SN♣	TO-220AB	800VDRM, 8A .....	.60	.54	.50
798278	MCR12D♣	TO-220AB	400VDRM, 12A .....	.68	.63	.65
798294	MCR12N♣	TO-220AB	800VDRM, 12A .....	.67	.60	.55
877689	MCR22-006♣	TO-92	400VDRM, 1.5A .....	*	.176	.17
798331	MCR69-002♣	TO-220AB	50VDRM, 25A .....	.93	.83	.81
798358	MCR69-003♣	TO-220AB	100VDRM, 25A .....	1.05	.95	.86
877700	MCR72-006♣	TO-220AB	400VDRM, 8A .....	.79	.73	.67
877726	MCR72-008♣	TO-220AB	600VDRM, 8A .....	.91	.80	.74
877662	MCR100-006♣	TO-92	400VDRM, 8A .....	*	.122	.11
798251	MCR100-6G♣	TO-92	400VDRM, 0.8A .....	*	.117	.159
798315	MCR310-010♣	TO-220AB	800VDRM, 10A .....	1.11	1.04	1.27

★ Please call or visit our website for minimum order quantity and pricing

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Silicon Controlled Rectifiers (SCRs)

					* Minimum order 10 pieces			
Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
14859	C38M	◆	TO-65	600 PRV, 35A (2N3899)	\$6.89	\$6.19	\$5.59	\$5.05
14736	C106B1*	◆	TO-202	200 PRV, 4A (2N6239)↑	.67	.54	.46	.40
14752	C122B	◆	TO-220	200 PRV, 8A↑	.73	.66	.63	.52
14761	C122M	◆	TO-220	600 PRV, 8A↑	1.35	1.25	1.05	.69
220530	T106B1⊕	◆	TO-202AB	200 V <sub>DRM</sub> , 4A	.49	.446	.416	.31
160119	T106D1⊕	◆	TO-202AB	400 V <sub>DRM</sub> , 4A	.41	.369	.295	.248
119802	2N5060⊕	◆	TO-92	25 PRV, 0.8A	.21	.19	.15	.12
211422	2N5061⊕	◆	TO-92	60 PRV, 0.8A	*.143	.111	.09	
120070	2N5062⊕	◆	TO-92	100 PRV, 0.8A	*.13	.12	.11	
140417	2N6507⊕	◆	TO-220AB	400 PRV, 25A	.92	.83	.66	.56
220548	S4025L⊕	TEC	TO-220AB	400 V <sub>DRM</sub> , 25A	1.49	1.42	1.34	1.30
160135	S6025L⊕	TEC	TO-220AB	600 V <sub>DRM</sub> , 25A	1.69	1.53	1.37	1.04

† Isolated ♦ Jameco Value Offering TEC = Teccor \* 10 pcs. in Diode/Rectifier cabinet kit, pg 44


















## Rectifiers

Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
177754	T6A05L	♦	T6L	50 PIV, 6A	\$ .36	\$ .32	\$ .288	\$ .265
177762	T6A10L	♦	T6L	100 PIV, 6A	.75	.65	.55	.45
177818	T6A100L	♦	T6L	1000 PIV, 6A	.80	.72	.65	.49
618100	MBR745	♦	TO-220	35 V <sub>RRM</sub> , 7.5A	.44	.417	.382	.287
301444	MBR1060	♦	TO-220	60 V <sub>RRM</sub> , 10A	.63	.56	.48	.43
35924	1N1188	♦	DO-5	400 PRV, 35A	4.49	4.45	4.14	3.28
645706	MBR1645	♦	TO-220	45 V <sub>RRM</sub> , 16A	.85	.74	.63	.473
618097	MBR2535CR	♦	TO-220	35 V <sub>RRM</sub> , 30A	.91	.82	.76	.71
35975	1N4001	♦	DO-41	50 PRV, 1A	.028	.028	.017	
76961	1N4002	♦	DO-41	100 PRV, 1A	.043	.031	.019	
76970	1N4003	♦	DO-41	200 PRV, 1A	.024	.018	.019	
35991	1N4004	♦	DO-41	400 PRV, 1A	.04	.028	.017	
76988	1N4005	♦	DO-41	600 PRV, 1A	.03	.024	.018	.018
76996	1N4006	♦	DO-41	800 PRV, 1A	.033	.026	.02	
36011	1N4007	♦	DO-41	1000 PRV, 1A	.04	.03	.021	
77075	1N5400	♦	DO-27A	50 PRV, 3A	.10	.098	.074	
36249	1N5401	♦	DO-27A	100 PIV, 3A	.092	.062	.106	
77083	1N5402	♦	DO-27A	200 PRV, 3A	.10	.075	.059	
36265	1N5404	♦	DO-27A	400 PRV, 3A	.112	.105	.077	
36273	1N5408	♦	DO-27A	1000 PRV, 3A	.15	.11	.08	
177949	1N5817	♦	DO-204AL	20 PIV, 1A	.12	.09	.078	
177957	1N5818	♦	DO-204AL	30 PIV, 1A	.07	.056	.042	
177965	1N5819	♦	DO-204AL	40 PIV, 1A	.10	.085	.075	
177990	1N5822	♦	DO-201AD	40 PIV, 3A	.21	.18	.168	.134
618062	40CPQ060	♦	TO-247AC	60 V <sub>RRM</sub> , 40A (Schottky)	2.25	1.45	1.32	.99

♦ Jameco Value Offering \* 10 pcs./ \*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 44

## ON Semiconductor Rectifiers

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* Minimum order 10 pieces						
Part No.	Product No.	Pkg.	Rating	1	10	100
743664	1N5817G 	DO-41	20 @ 1A .....	*	\$ .123	\$ .094
743672	1N5818G 	DO-41	30 @ 1A .....	*	.094	.09
743681	1N5819G 	DO-41	40 @ 1A .....	*	.164	.138
743699	1N5820G 	DO-201AD	20 @ 3A .....	*	.16	.148
805167	1N5821G 	DO-201AD	30 @ 3A .....	*	.178	.149
805183	1N5822G 	DO-201AD	40 @ 3A .....	*	.218	.20
743701	1N5822RLG 	DO-201AD	40 @ 3A .....	*	.178	.146
802020	MUR105G 	DO-41	50 @ 1A .....	*	.247	.223
879262	MUR110G 	DO-41	100 @ 1A .....	*	.127	.096
879932	MURS110T3 	SMB	100 @ 1A .....	★	Call	Call
802062	MUR115G 	DO-41	150 @ 1A .....	.27	.247	.223
879975	MURS120T3G 	SMB	200 @ 1A .....	★	Call	Call
879289	MUR120G 	DO-41	200 @ 1A .....	.32	.206	.177
865725	MBRM120LT1 	POWERMITE	20 @ 1A .....	★	Call	Call
865864	MBRS130LT3	SMB	30 @ 1A .....	*	.291	.255
865899	MBRS130LT3G 	SMB	30 @ 1A .....	★	Call	Call
865944	MBRS130T3G 	SMB	30 @ 1A .....	★	Call	Call
802089	MUR140G 	DO-41	400 @ 1A .....	*	.128	.118

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## ON Semiconductor® Rectifiers (Cont.)

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Part No.	Product No.	Pkg.	Rating	* Minimum order 10 pieces		
				1	10	100
865995	MBRS140LT3	SMB	40 @ 1A	★ Call	Call	Call
866058	MBRS140T3G	SMB	40 @ 1A	★ Call	Call	Call
790567	MBR150G	DO-41	50 @ 1A	★	.183	.166
879414	MUR160G	DO-41	600 @ 1A	★	.125	.096
886622	MBR160G	DO-41	60 @ 1A	★	.11	.094
791084	MBRD320	DPAK	20 @ 3A	.89	.72	.66
791105	MBRD320G	DPAK	20 @ 3A	.91	.85	.78
791121	MBRD340G	DPAK	40 @ 3A	★	.294	.267
790831	MBR340G	DO-201AD	40 @ 3A	★	.146	.135
791148	MBRD360G	DPAK	60 @ 3A	1.05	.98	.86
886711	MBR360G	DO-201AD	60 @ 6A	★	.134	.121
886729	MBR360RLG	DO-201AD	60 @ 6A	★	.134	.121
802311	MUR405G	DO-201AD	50 @ 4A	★	.414	.314
879641	MUR410G	DO-201AD	100 @ 4A	★	.229	.221
802337	MUR415G	DO-201AD	150 @ 4A	★	.41	.314
879668	MUR420G	DO-201AD	200 @ 4A	★	.175	.157
802353	MUR460G	DO-201AD	600 @ 4A	★	.289	.253
802433	MURD620CTG	DPAK	200 @ 6A	★	.279	.263
865645	MBRD640CT	DPAK	40 @ 6A	.65	.60	.53
790938	MBR735	TO-220AC/2	35 @ 7.5A	.76	.74	.56
790954	MBR745G	TO-220AC/2	45 @ 7.5A	.71	.62	.56
878892	MR751RL	194	100 @ 6A	★ Call	Call	Call
801511	MR752G	194	200 @ 6A	.62	.51	.471
878956	MR754RL	194	400 @ 6A	★ Call	Call	Call
879721	MUR810	TO-220AC/2	100 @ 8A	.54	.445	.412
879764	MUR810G	TO-220AC/2	100 @ 8A	.54	.445	.412
802370	MUR815	TO-220AC/2	150 @ 8A	1.59	1.41	1.01
802396	MUR820G	TO-220AC/2	200 @ 8A	.65	.54	.52
791164	MBRD835LG	DPAK	35 @ 8A	.56	.429	.383
879895	MURH840CT	TO-220AB/3	400 @ 8A	.92	.81	.71
801553	MR851RLG	DO-201AD	100 @ 3A	★	.092	.086
879035	MR852G	DO-201AD	200 @ 3A	★	.088	.074
801570	MR852RLG	DO-201AD	200 @ 3A	★ Call	Call	Call
879051	MR854G	DO-201AD	400 @ 3A	★	.091	.076
801596	MR854RLG	DO-201AD	400 @ 3A	★ Call	Call	Call
801617	MR856G	DO-201AD	600 @ 3A	★	.092	.086
801625	MR856RLG	DO-201AD	600 @ 3A	★ Call	Call	Call
802450	MURH860CTG	TO-220AB/3	600 @ 8A	1.12	.93	.83
879810	MUR860	TO-220AC/2	600 @ 8A	1.13	.98	.76
802417	MUR880	TO-220AC/2	800 @ 8A	.66	.64	.62
791068	MBRD1035CTL	DPAK	35 @ 10A	.94	.85	.66
886761	MBRB1045T4	D2PAK	45 @ 10A	★ Call	Call	Call
886593	MBR1045	TO-220AC/2	45 @ 10A	.60	.483	.439
808341	MBR1045G	TO-220AC/2	45 @ 10A	★	.458	.385
808376	MBR1060G	TO-220AC/2	60 @ 10A	★	.392	.363
790508	MBR1090	TO-220AC/2	90 @ 10A	.75	.69	.63
802046	MUR1100EG	DO-41	1000 @ 1A	★	.211	.178
865784	MBRS1100T3	SMB	100 @ 1A	★ Call	Call	Call
865813	MBRS1100T3G	SMB	100 @ 1A	★ Call	Call	Call
790541	MBR1160G	DO-41	100 @ 1A	★	.133	.124
802100	MUR1515	TO-220AC/2	150 @ 15A	.69	.64	.60
879318	MUR1520G	TO-220AC/2	200 @ 15A	.76	.62	.58
790583	MBR1535CTG	TO-220AB/3	35 @ 15A	1.00	.92	.86
886614	MBR1545CT	TO-220AB/3	45 @ 15A	.83	.63	.52
790604	MBR1545CTG	TO-220AB/3	45 @ 15A	.97	.79	.60
879377	MUR1560G	TO-220AC/2	600 @ 15A	1.45	1.27	.99
802134	MUR1615CTG	TO-220AB/3	150 @ 16A	.53	.482	.468
879490	MUR1620CTG	TO-220AB/3	200 @ 16A	.72	.524	.482
879511	MUR1620CTR	TO-220AB/3	200 @ 16A	1.40	1.23	.94
802151	MUR1620CTRG	TO-220AB/3	200 @ 16A	1.17	.91	.83
886631	MBR1635	TO-220AC/2	35 @ 16A	.54	.519	.50
790621	MBR1635G	TO-220AC/2	35 @ 16A	.76	.70	.61
802193	MUR1640CTG	TO-220AB/3	400 @ 16A	.83	.80	.78
790647	MBR1645G	TO-220AC/2	45 @ 16A	.68	.56	.521
802425	MURB1660CT	D2PAK	600 @ 16A	1.48	1.25	1.05
879537	MUR1660CT	TO-220AB/3	600 @ 16A	1.29	1.06	.97

★ Please call or visit our website for minimum order quantity and pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## ON Semiconductor® Rectifiers (Cont.)

For more ON Semi Rectifiers  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Rating	* Minimum order 10 pieces		
				1	10	100
802257	MUR2020RG	TO-220AC/2	200 @ 20A	\$1.31	\$1.25	\$1.59
790701	MBR2045CTG	TO-220AB/3	45 @ 20A	.89	.83	.63
791017	MBRB2060CT	D2PAK	60 @ 20A	2.15	1.95	1.72
886681	MBR2080CT	TO-220AB/3	80 @ 20A	1.05	.81	.73
790743	MBR2045CTG	TO-220AB/3	80 @ 10A	.88	.80	.73
801473	MR2504	MICRO BUTTON	400 @ 25A	★	.295	.28
865506	MBRB2535CTL	D2PAK	35 @ 12.5A	1.75	1.53	1.30
791236	MBRB2545CT	TO-220/3	45 @ 25A	1.99	1.86	1.72
865531	MBR2545CT	D2PAK	45 @ 30A	1.35	1.26	1.18
802273	MUR3020PTG	TO-218/3	200 @ 30A	3.45	3.34	2.93
802290	MUR3020WT	TO-247/3	200 @ 30A	1.65	1.53	1.42
791050	MBRB3030CTL	D2PAK	30 @ 30A	2.95	2.74	2.51
886702	MBR3045PTG	TO-218/3	45 @ 30A	1.25	1.14	1.04
879609	MUR3060WT	TO-247/3	600 @ 30A	2.29	2.15	2.00
790815	MBR3100G	DO-201AD	100 @ 3A	★	.244	.226
879094	MRA4004T3	SMA	400 @ 1A	★	.155	.137
790891	MBR4045PT	TO-218/3	45 @ 40A	1.69	1.56	1.39
879625	MUR4100EG	DO-201AD	1000 @ 8A	★	.329	.292
790911	MBR6045WT	TO-247AC/3	45 @ 60A	3.55	3.48	3.41
879748	MUR8100E	TO-220AC/2	1000 @ 8A	.74	.61	.57
886577	MBR10100	TO-220AC/2	100 @ 10A	★	Call	Call
886585	MBR10100G	TO-220AC/2	100 @ 10A	.85	.74	.67
886788	MBRB20100CT	D2PAK	100 @ 20	1.15	1.04	.93
790997	MBRB20100CTG	D2PAK	100 @ 20A	.95	.93	.90
886657	MBR20100CTG	TO-220AB/3	100 @ 20A	1.05	.95	.81
791181	MBRF20100CT	TO-220/3	100 @ 20A	1.65	1.50	1.47
790663	MBR20200CTG	TO-220AB/3	200 @ 20A	1.79	1.59	1.34
791210	MBRF20200CTG	TO-220/3	200 @ 20A	3.09	2.72	2.04

\* Isolated ★ Please call or visit our website for minimum order quantity and pricing































## Bridge Rectifiers



Part No.	Product No.	Mfr.	Pkg.	Rating	1 10 100 1000			
					1	10	100	1000
178001	DF005M	♣	DF	50 PIV, 1A	\$ .39	\$ .351	\$ .208	\$ .16
103000	DF01M	♣	DF	100 PIV, 1A	.30	.27	.216	.162
103042	DF02M	♣	DF	200 PIV, 1A	.35	.30	.22	.132
102971	DF04M	♣	DF	400 PIV, 1A	.37	.32	.23	.17
103034	DF06M	♣	DF	600 PIV, 1A	.24	.221	.21	.189
103026	DF10M	♣	DF	1000 PIV, 1A	.26	.236	.189	.142
256575	DF08M	♣	DIP-4	800 PIV, 1.5A	.29	.25	.21	.15
145429	KBP02M	♣	KBP	200 PIV, 1.5A	.40	.35	.29	.19
119562	KBP04M	♣	KBP	400 PIV, 1.5A	.48	.432	.346	.26
279494	W005G	♣	WOG	500 PIV, 1.5A	.38	.32	.28	.19
103018	W02G	♣	WOG	200 PIV, 1.5A	.47	.39	.34	.21
102980	W04G	♣	WOG	400 PIV, 1.5A	.41	.365	.328	.30
179469	W08G	♣	WOG	800 PIV, 1.5A	.34	.29	.244	.176
279515	W10G	♣	WOG	1000 PIV, 1.5A	.48	.42	.35	.23
178124	W005M	♣	WOM	50 PIV, 1.5A	.29	.261	.19	.143
178132	W01M	♣	WOM	100 PIV, 1.5A	.44	.324	.24	.204
178141	W02M	♣	WOM	200 PIV, 1.5A	.43	.38	.31	.23
178183	BR805D	♣	BR8D	50 PIV, 2A	.55	.49	.39	.35
178204	BR82D	♣	BR8D	200 PIV, 2A	.85	.77	.69	.62
178247	BR810D	♣	BR8D	1000 PIV, 2A	.48	.43	.37	.35
253260	2KBP06M	♣	KBP	600 PIV, 2A	.54	.467	.286	.264
253266	2KBP10M	♣	KBP	1000 PIV, 2A	.48	.42	.324	.269
179477	GBPC25-01	♣	GBPC	100 PIV, 25A	2.29	1.86	1.53	1.22
179485	GBPC25-02	♣	GBPC	200 PIV, 25A	1.95	1.76	1.40	1.05
178280	MB254	♣	MB35	400 PIV, 25A	2.35	2.10	1.90	1.70
178335	TB252	♣	TB35	200 PIV, 25A	2.09	1.85	1.69	1.50
25574	MDA990-3	♣	179-01	200 PIV, 30A	3.99	3.45	2.99	1.85
25591	MDA990-6	♣	179-01	600 PIV, 30A	4.59	4.29	3.99	3.59
299882	GBPC1204	♣	GBPC400 V <sub>RRM</sub>	12A	2.99	2.67	1.89	1.15
299874	GBPC1206	♣	GBPC600 V <sub>RRM</sub>	12A	3.15	2.65	1.91	1.71
299866	GBPC1206W	♣	GBPC-V 600 V <sub>RRM</sub>	12A	1.89	1.70	1.36	1.04
178431	MB358	♣	MB35	800 PIV, 35A	3.59	3.29	2.75	1.85
178503	TB3510	♣	TB35	1000 PIV, 35A	3.25	2.65	2.40	2.15

♣ Jameco Value Offering \*10 pcs. in Diode/Rectifier cabinet kit, pg 44














† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Optoisolators

Part No.	Cross Ref.	Package	Description	1	10	100
40985	4N25 	DIP-6	Diode, NPN phototransistor	.24	.22	.19
671808	4N25S	SOIC-6	General purpose phototransistor	.31	.233	.13
41005	4N26	DIP-6	Diode, NPN phototransistor	.24	.18	.135
671816	4N26S	SOIC-6	General purpose phototransistor	.29	.233	.131
41013	4N28 	DIP-6	Diode, NPN phototransistor	.25	.213	.16
320565	4N31 	DIP-6	General purpose photodarlington	.30	.273	.205
41021	4N32 	DIP-6	Diode, NPN photodarlington	.26	.221	.166
671824	4N32S 	SOIC-6	GAAS IRED and phototransistor	.53	.40	.30
41030	4N33 	DIP-6	Diode, NPN photodarlington	.29	.28	.25
41056	4N35 	DIP-6	Diode, NPN phototransistor	.29	.26	.235
671832	4N35S 	SOIC-6	General purpose phototransistor	.31	.24	.18
277464	4N36 	DIP-6	General purpose phototransistor	*	.17	.151
671841	4N37	SOIC-6	General purpose phototransistor	.32	.247	.149
277510	6N135 	DIP-8	High-speed transistor optocoupler	.63	.54	.405
42471	6N136	DIP-8	High speed transistor optocoupler	.60	.544	.477
113911	6N137	DIP-8	High-speed logic optocoupler	.65	.51	.48
42489	6N138	DIP-8	Low input curr., hi-gain split darlington	.77	.64	.48
113929	6N139	DIP-8	High-speed, high-gain darlington	<del>.75</del> .66	.56	.45
320389	CNY17-1 	DIP-6	High BV <sub>ceo</sub> phototransistor	.31	.236	.179
320397	CNY17-2 	DIP-6	High BV <sub>ceo</sub> phototransistor	.32	.28	.21
320400	CNY17-3 	DIP-6	High BV <sub>ceo</sub> phototransistor	.31	.24	.18
320418	CNY17-4 	DIP-6	High BV <sub>ceo</sub> phototransistor	.31	.24	.18
188225	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor	.62	.52	.39
320434	H11AA2	DIP-6	AC input phototransistor optocoupler	.35	.286	.26
320442	H11AA3 	DIP-6	AC input phototransistor optocoupler	.41	.329	.286
320573	H11B1 	DIP-6	Photodarlington optocoupler	.34	.288	.216
320581	H11B2 	DIP-6	Photodarlington optocoupler	.35	.26	.195
320602	H11B3 	DIP-6	Photodarlington optocoupler	.41	.36	.27
320493	H11D1 	DIP-6	High voltage phototransistor	.63	.534	.401
320514	H11D2 	DIP-6	High voltage phototransistor	.53	.449	.338
320522	H11D3 	DIP-6	High voltage phototransistor	.26	.233	.21
113996	H11F1	DIP-6	Isolated FET	1.69	1.39	1.10
320186	H11F2 	DIP-6	Photo FET optocouplers	<del>1.75</del> 1.55	1.26	1.04
320194	H11F3 	DIP-6	Photo FET optocouplers	1.69	1.45	1.18
277747	H11G3 	DIP-6	High-voltage photodarlington	.67	.57	.428
113988	H11L1	DIP-6	Schmitt trigger output photocoupler	.63	.58	.56
320207	H11L2	DIP-6	Photo FET optocouplers	<del>1.71</del> .66	.56	.45
114083	ISO203	DIP-16	Quad channel NPN phototransistor	2.95	2.66	1.99
320477	MCT2 	DIP-6	Phototransistor optocoupler	.47	.353	.268
24918	MCT6	DIP-8	Dual channel NPN phototransistor	.68	.55	.42
672317	MCT61 	DIP-8	Dual channel NPN phototransistor	.50	.389	.323
672325	MCT62 	DIP-8	Dual channel NPN phototransistor	.57	.50	.36
672333	MCT9001 	DIP-8	Dual channel NPN phototransistor	.62	.51	.40
672245	MOC205	SOIC-8	Optocoupler phototransistor	.63	.478	.27
672253	MOC206	SOIC-8	Optocoupler phototransistor	.49	.359	.28
672261	MOC207	SOIC-8	Optocoupler phototransistor	.41	.329	.272
672270	MOC208	SOIC-8	Optocoupler phototransistor	.46	.426	.392
672288	MOC215	SOIC-8	Optocoupler phototransistor	.58	.389	.33
672296	MOC216	SOIC-8	Optocoupler phototransistor	.49	.359	.221
672309	MOC217	SOIC-8	Optocoupler phototransistor	.64	.486	.278
26278	MOC3010	DIP-6	Bilateral triac driver	.56	.49	.41
95020	MOC3011	DIP-6	Bilateral triac driver	.68	.51	.383
671859	MOC3012S	SOIC-6	Random phase triac driver	.55	.40	.34
277780	MOC3020	DIP-6	Random phase triac driver	.52	.398	.31
671867	MOC3020S	SOIC-6	Random phase triac driver	.53	.446	.269
95038	MOC3021 	DIP-6	Bilateral triac driver	.56	.52	.47
671875	MOC3021S	SOIC-6	Random phase triac driver	.53	.45	.269
671883	MOC3022S	SOIC-6	Random phase triac driver	.53	.45	.269
277819	MOC3023 	DIP-6	Random phase triac driver	.46	.419	.353
671904	MOC3023S	SOIC-6	Random phase triac driver	.53	.45	.349
26294	MOC3031	DIP-6	Zero crossing triac driver	.66	.60	.54
113953	MOC3032	DIP-6	Zero crossing triac driver	.71	.59	.49

 RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.[Details on page 1.](#)

## Optoisolators (Continued)

Part No.	Cross Ref.	Package	Description	1	10	100
277835	MOC3041 	DIP-6	Zero crossing triac driver	<del>.75</del> .62	<del>.62</del> .465	<del>.465</del> .465
113961	MOC3042 	DIP-6	Zero crossing triac driver	.78	.62	.465
277843	MOC3043 	DIP-6	Zero crossing triac driver	.68	.56	.42
277915	MOC3061	DIP-6	Zero crossing phototriac driver	.74	.66	.495
133874	MOC3063 	DIP-6	Zero crossing triac driver	.87	.75	.61
672165	MOC3081	DIP-6	Zero crossing triac driver	1.05	.91	.66
320629	MOC3082	DIP-6	Zero crossing optoisolator	.90	.77	.63
320611	MOC3083 	DIP-6	Zero crossing optoisolator	.98	.83	.62
672181	MOC3163	DIP-6	Zero crossing phototriac driver	1.38	1.11	.79
672190	MOC8101	DIP-6	Optocoupler phototransistor	.50	.38	.29
672202	MOC8102	DIP-6	Optocoupler phototransistor	.45	.381	.306
672211	MOC8103	DIP-6	Optocoupler phototransistor	.45	.38	.24
672229	MOC8104	DIP-6	Optocoupler phototransistor	.26	.252	.242
672237	MOC8106 	DIP-6	Optocoupler phototransistor	.50	.378	.217
672106	MOC8111	DIP-6	Phototransistor, no base	.30	.26	.182
672122	MOC8112 	DIP-6	Phototransistor, no base	.30	.26	.21
672131	MOC8113	DIP-6	Phototransistor, no base	.30	.259	.181
672093	MOC8020	DIP-6	Photodarlington optocoupler	.52	.437	.268
672069	MOC8021	DIP-6	Photodarlington optocoupler	.53	.44	.35
672157	MOC8030	DIP-6	Photodarlington optocoupler	.45	.34	.29
672149	MOC8050 	DIP-6	Photodarlington optocoupler	.59	.49	.32
320653	PS2501-1	DIP-4	Single transistor photocoupler	.20	.19	.185
671912	PS2501-L	SOP-4	Single transistor photocoupler	.38	.329	.282
320661	PS2501-2	DIP-8	Single transistor photocoupler	.51	.459	.418
671921	PS2501-L2	SOP-8	Single transistor photocoupler	.77	.66	.56
160338	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
671939	PS2501-L4	SOP-16	Single transistor photocoupler	1.45	1.25	1.07
320688	PS2502-1	DIP-4	Darlington photocoupler	.50	.468	.424
320696	PS2502-2	DIP-8	Darlington photocoupler	1.42	1.16	1.05
160362	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39
672034	PS2503-1	DIP-4	Diode, NPN phototransistor	.89	.70	.64
672000	PS2503-L	SOP-4	High speed switching photocoupler	.95	.75	.68
672042	PS2503-2	DIP-8	Diode, NPN phototransistor	1.32	1.14	.97
672018	PS2503-L2	SOP-8	High speed switching photocoupler	1.48	1.24	1.08
672051	PS2503-4	DIP-16	Diode, NPN phototransistor	2.59	2.32	1.92
672026	PS2503-L4	SOP-16	High speed switching photocoupler	2.69	2.44	1.94
320709	PS2505-1	DIP-4	High isolation voltage photocoupler	.40	.338	.315
671947	PS2505-L1	SOP-4	High isolation voltage photocoupler	.46	.388	.332
320717	PS2505-2 	DIP-8	High isolation voltage photocoupler	.95	.92	.83
671955	PS2505-L2	SOP-8	High isolation voltage photocoupler	1.20	1.02	.89
320725	PS2505-4	DIP-16	High isolation voltage photocoupler	1.98	1.59	1.43
671971	PS2505-L4	SOP-16	High isolation voltage photocoupler	1.98	1.75	1.43
320750	PS2506-1 	DIP-4	High isolation voltage photocoupler	.54	.51	.462
320784	PS2532-1 	DIP-4	High collector to high emitter volt. photocoupler	.59	.51	.38
320792	PS2532-2 	DIP-8	High collector to high emitter volt. photocoupler	1.09	.98	.90
320805	PS2532-4 	DIP-16	High collector to high emitter volt. photocoupler	2.34	2.25	2.08
320821	PS2561-2	DIP-8	High isolation voltage photocoupler	.75	.64	.56
671980	PS2561-L4	SOP-16	High isolation voltage photocoupler	.47	.421	.353











AVAGO

Optocouplers

NEW

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\* Minimum order 10 pieces

Part No.	Product No.	Package	Description	1	10	100
1547876	4N35-000E 	DIP-6	Phototransistor optocoupler gen. purp.	*	\$ .20	\$ .187
1583210	4N46-000E 	DIP-6	High gain darlington output opto.	2.35	2.17	2.04
1548107	6N136-000E 	DIP-8	Single ch., high-speed opto.	1.11	1.03	.97
1583261	6N136-020E 	DIP-8	Single ch., high-speed opto.	1.13	1.06	.99
1548131	6N137-000E 	DIP-8	High CMR, hi-spd TTL compatible opto.	1.23	1.15	1.08
1583287	6N137-300E 	DIP-8	High CMR, hi-spd TTL compatible opto.	1.25	1.17	1.10
1583295	6N137-500E 	DIP-8	High CMR, hi-spd TTL compatible opto.	1.25	1.17	1.10
1583308	6N138-000E 	DIP-8	Single ch. low input current, high gain opto.	1.08	1.01	.95
1583316	6N139-000E 	DIP-8	Single ch. low input current, high gain opto.	1.08	1.01	.95
1549441	HCPL060L-000E 	SOIC-8	Hi-spd LV TTL compatible 3.3V opto.	1.99	1.84	1.72
1549644	HCPL-063N	SOIC-8	HCMS compat., dual-ch., high-CMR, 10MBd opto. (0.400" W)	7.65	7.12	6.67
1549003	HCNW136	DIP-8	Single ch., hi-spd opto. (0.400" W)	1.99	1.84	1.72
1549020	HCNW137	DIP-8	High CMR, hi-spd TTL compat. opto. (0.400" W)	2.35	2.16	2.02
1549054	HCNW139	DIP-8	Low input curr., high gain opto. (0.400" W)	2.65	2.46	2.30

Color Code Legend

New Sale Lower\$ QtySave

# Optoisolators & Optocouplers



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave

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## Optocouplers (Continued)

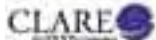
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Part No.	Product No.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
1550493	HCPL-314J	SOIC-16	0.6A output current IGBT gate drive opto. ....	\$2.99	\$2.76	\$2.58
1550549	HCPL-316J-000E	SOIC-16	2.5A gate drv opto. w/ integ. desat. detect. & fault status	5.05	4.71	4.41
1584141	HCPL-354-000E	SOIC-4	AC input phototransistor opto. ....	*	.29	.27
1549265	HCPL-0453	SOIC-8	Single ch., hi-spd opto. ....	2.05	1.88	1.76
1549329	HCPL-0501-000E	SOIC-8	Single ch., hi-spd opto. ....	1.43	1.33	1.25
1549361	HCPL-0531	SOIC-8	Dual ch., hi-spd opto. ....	3.45	3.21	3.01
1550995	HCPL-M601	SO-5	High CMR, hi-spd logic gate opto. ....	2.19	2.02	1.89
1549530	HCPL-0630-000E	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto. ....	4.49	4.07	3.82
1549741	HCPL-0710-000E	SOIC-8	40ns propagation delay, CMOS opto. ....	5.25	4.79	4.49
1549839	HCPL-0731	SOIC-8	Dual ch. low input current, high gain opto. ....	4.09	3.72	3.49
1549978	HCPL-2211	DIP-8	Sngl ch., very high CMR, wide Vcc logic gate opto. ....	3.05	2.80	2.63
1550039	HCPL-2231-300E	SOIC-8	Dual ch., very high CMR, wide Vcc logic gate opto. ....	6.79	6.36	5.97
1550047	HCPL-2232	DIP-8	Dual ch., very high CMR, wide Vcc logic gate opto. ....	8.99	8.18	7.67
1550143	HCPL-2530	DIP-8	Dual ch. hi-spd optocoupler ....	2.09	1.93	1.81
1550186	HCPL-2601	DIP-8	Sngl ch., high CMR, hi-spd TTL compat. opto. ....	1.69	1.54	1.44
1550282	HCPL-2630-000E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto. ....	3.09	2.87	2.69
1550311	HCPL-2630-300E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto. ....	3.15	2.92	2.73
1550320	HCPL-2631	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto. ....	3.35	3.10	2.91
1550389	HCPL-2730-000E	DIP-8	Dual ch. low input current, high gain opto. ....	2.59	2.41	2.26
1550581	HCPL-3700-000E	DIP-8	AC/DC to logic interface opto. ....	3.49	3.26	3.06
1584167	HCPL-3700-300E	SOIC-8	AC/DC to logic interface opto. ....	3.45	3.23	3.03
1584175	HCPL-3760-000E	DIP-8	AC/DC to logic interface opto. ....	5.35	4.97	4.66
1584183	HCPL-4100-000E	DIP-8	Optically coupled 20mA current loop transmitter ..	6.25	5.80	5.44
1584191	HCPL-4200-000E	DIP-8	Optically coupled 20mA current loop transmitter ..	6.25	5.80	5.44
1584204	HCPL-4503-000E	DIP-8	Sngl ch. hi-spd optocoupler ....	1.79	1.68	1.58
1550661	HCPL-4504-000E	DIP-8	Hi-spd, high CMR optocoupler ....	2.09	1.93	1.81
1584212	HCPL-7601-000E	DIP-8	CMOS/TTL compat. low inp. curr., hi-spd, high CMR opto. ....	2.89	2.69	2.52
1584221	HCPL-7710-000E	DIP-8	40ns propagation delay, CMOS opto. ....	4.65	4.35	4.07
1584239	HCPL-7710-300E	DIP-8	40ns propagation delay, CMOS opto. ....	4.59	4.30	4.03
1584247	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler ....	9.05	8.45	7.92
1584263	HCPL-7800A-300E	SOIC-8	Isolation amplifier optocoupler ....	11.75	10.98	10.29
1550881	HCPL-7840-300E	SOIC-8	Isolation amplifier optocoupler ....	5.49	5.10	4.78
1584280	HCPL-788J-000E	SOIC-16	Isolation amplifier optocoupler ....	7.15	6.65	6.24



## Hermetically Sealed Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1583324	8102801EC	DIP-16	2-channel, high speed, high CMR logic gate opto. ....	\$78.35	\$73.14	\$68.57
1583332	8102802PC	DIP-8	2-channel, high speed, high CMR logic gate opto. ....	82.29	76.79	71.99
1583228	5962-8876901PC	DIP-8	2-channel low IF, wide VCC, logic gate opto. ....	144.39	134.77	126.35
1583236	5962-8978501PA	DIP-8	2-channel low IF, wide VCC, high gain opto. ....	95.09	88.77	83.22
1583244	5962-8981001PC	DIP-8	1-channel low IF, wide VCC, high gain opto. ....	85.89	80.17	75.15
1583252	5962-9085501HPC	DIP-8	1-channel, high speed, high CMR logic gate opto. ....	66.65	62.17	58.29



## Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1582891	ITC117P	DIP-16	Integrated telecom circuit ....	\$4.29	\$4.01	\$3.76
1583105	LDA100S	DIP-6	Opto. w/ sngl or darlington trans. output ..	.68	.63	.59
1583113	LOC110	DIP-8	Single linear optocoupler ....	1.79	1.68	1.58
1583121	LOC110S	SOIC-8	Single linear optocoupler ....	1.89	1.75	1.64
1583130	LOC111	DIP-8	Single linear optocoupler ....	2.15	1.97	1.85
1583156	PD2401	DIP-16	AC solid state switch w/ optical coupling ....	6.15	5.74	5.38
1583172	PS1201	SIP-8	AC pwr switch, dual pwr SCR outputs ....	4.85	4.53	4.25
1583181	TS117	DIP-8	1-Form-A relay w/ optocoupler ....	2.55	2.35	2.21
1583199	TS117S	SOIC-8	1-Form-A relay w/ optocoupler ....	2.55	2.35	2.21
1583201	TS117STR	SOIC-8	1-Form-A relay w/ optocoupler ....	2.55	2.38	2.23

\* 1-Form-A solid state relay, bridge rectifier, darlington transistor & optocoupler



## Optoisolators/Optocouplers

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* Minimum order 10 pieces						
Part No.	Product No.	Pkg.	Description	1	10	100
867173	4N25M	DIP-6	Gen. purpose phototransistor opto. ....	*	\$2.26	\$2.41
783623	4N26M	DIP-6	Gen. purpose phototransistor opto. ....	*	.255	.215
783631	4N33M	DIP-4	Gen. purpose photodarlington opto. ....	*	.291	.27
867202	4N35M	DIP-6	Gen. purpose phototransistor opto. ....	*	.247	.229

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

◆ RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## Optoisolators/Optocouplers (Cont.)

* Minimum order 10 pieces						
Part No.	Product No.	Pkg.	Description	1	10	100
783666	4N35SM	SOIC-6	Gen. purpose phototransistor opto. ....	*	\$2.26	\$2.41
783674	4N35TVM	DIP-6	Gen. purpose phototransistor opto. ....	*	.249	.231
783682	4N36M	DIP-6	Gen. purpose phototransistor opto. ....	*	.255	.215
867261	6N136S	SOIC-8	Single ch. high-speed transistor opto. ....	.75	.65	.55
783691	6N137S	SOIC-8	Single ch. high-sp. 10Mbps/s logic gate opto. ....	.75	.66	.55
785151	CNY171M	DIP-6	Phototransistor opto. ....	*	.247	.229
785178	CNY172M	DIP-6	Phototransistor opto. ....	*	.262	.244
871199	H11A1M	DIP-6	Gen. purpose phototransistor opto. ....	*	.249	.231
871324	H11AG1	DIP-6	Phototransistor opto. ....	.59	.545	.46
785725	H11AV1M	DIP-6	Phototransistor opto. ....	*	.418	.353
785733	H11AV2M	DIP-6	Phototransistor opto. ....	*	.348	.316
785741	H11B1S	SOIC-6	Photodarlington opto. ....	*	.317	.294
785750	H11B25S	DIP-6	Photodarlington opto. ....	*	.311	.262
785768	H11D1S	SOIC-6	High-voltage phototransistor opto. ....	.55	.479	.404
785776	H11F1S	SOIC-6	Photo FET opto. ....	2.09	1.91	1.61
871341	H11L1M	DIP-6	Optoisolator logic output ....	.65	.58	.495
871367	H11L1SM	SOIC-6	Optoisolator logic output ....	.65	.58	.495
871404	H11L2M	DIP-6	Optoisolator logic output ....	.65	.58	.495
871210	H11A817A	DIP-4	Phototransistor optocoupler ....	★	Call	Call
871244	H11A817ASD	SOIC-4	Phototransistor optocoupler ....	★	Call	Call
871261	H11A817C	DIP-4	Phototransistor optocoupler ....	★	Call	Call
785717	H11A817CSD	SOIC-4	Phototransistor optocoupler ....	★	Call	Call
871287	H11A817D	DIP-4	Phototransistor optocoupler ....	★	Call	Call
871308	H11A817A	DIP-4	Phototransistor optocoupler ....	★	Call	Call
785792	H22B3	4-pin sltd	Photodarlington optical interrupter switch .....	.79	.73	.62
871421	HCPL2531	DIP-8	Dual ch. high-speed transistor opto. ....	1.79	1.65	1.39
785805	HCPL2531S	SOIC-8	Dual ch. high-speed transistor opto. ....	1.79	1.65	1.39
871447	HCPL2601S	SOIC-8	Single ch. high-speed 10Mbit/s logic gate opto. ....	1.45	1.33	1.12
785813	HCPL2630	DIP-8	Dual ch. high-speed 10Mbit/s logic gate opto. ....	2.69	2.47	2.09
871463	HCPL2631	DIP-8	Dual ch. high-speed 10Mbit/s logic gate opto. ....	1.95	1.78	1.50
785821	HCPL2631S	SOIC-8	Dual ch. high-speed 10Mbit/s logic gate opto. ....	1.95	1.78	1.50
785830	HCPL2730	DIP-8	Dual ch. low-inp. curr. high-gain split darl. opto. ....	1.79	1.65	1.39
871498	HCPL2731	DIP-8	Dual ch. low-inp. curr. high-gain split darl. opto. ....	1.55	1.42	1.20
873493	MOC207M	SOIC-8	Optocoupler transistor output ....	★	Call	Call
787288	MOC70P2	4-pin sltd	Phototrans. optical interrupter switch .....	.79	.73	.62
698912	MOC3010M	DIP-6	Random-phase triac driver output optoisolator ....	*	.367	.344
787181	MOC3012M	DIP-6	Random-phase triac driver output optoisolator ....	*	.415	.386
698947	MOC3031M	DIP-6	Zero-cross Triac driver output optoisolator ....	.64	.60	.56
698955	MOC3032M	DIP-6	Zero-cross Triac driver output optoisolator ....	.59	.55	.517
787202	MOC3041TVM	DIP-6	Zero-cross triac driver output optoisolator ....	*	.67	.62
698963	MOC3042M	DIP-6	Zero-cross Triac driver output optoisolator ....	.71	.67	.62
787229	MOC3061SM	SOIC-6	Zero-cross phototriac driver opto. ....	.79	.71	.60
787237	MOC3062TVM	DIP-6	Zero-cross phototriac driver opto. ....	.79	.73	.62
787253	MOC3063VM	DIP-6	Zero-cross phototriac driver opto. ....	.79	.71	.60
698971	MOC3063M	DIP-6	Zero-cross phototriac driver opto. ....	*	.388	.364
698998	MOC3083M	DIP-6	Zero-cross Triac driver output optoisolator ....	1.06	.99	.93
787261	MOC3163M	DIP-6	Zero-cross phototriac driver opto. ....	1.39	1.27	1.07
787309	MOC8050300W	DIP-6	Photodarlington opto. (no base connect.) .....	*	.408	.344
787317	MOC8100M	DIP-6	Gen. purpose phototransistor opto. ....	*	.27	.251
787325	MOC8103S	SOIC-6	Phototransistor opto. ....	*	.311	.29
787333	MOC8104S	SOIC-6	Phototransistor opto. ....	*	.311	.29

★ Please call or visit our website for minimum order quantity and pricing.

## Slotted Optical Switches

4-pin w/ tab



Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091	H21A1	4-pin w/ tab	Single channel slotted interrupter ....	\$2.75	\$2.70	\$2.60
278011	H21A2	4-pin w/ tab	Phototransistor optical interrupter ....	1.14	.82	.67
320901	H21A3	4-pin w/ tab	Phototransistor optical switch ....	.84	.74	.57
278070	H21B1	4-pin w/ tab	Photodarlington optical interrupter ....	.92	.84	.57



## 10' Fiber Optic Cable

• 1000µm core jacketed plastic fiber optic cable (10')



Part No.	Product No.	1	10
171272	IF-C-E1000	\$7.45	\$6.69

## TOSHIBA Optocouplers

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## Transistor Output

\* Minimum order 10 pieces

Part No.	Product No.	Package	Curr. Trans Ratio		Collector Bkdw. Volt.	Iso. Volt. (Vrms)			
			Min. (%)	(VCE@IF)			1	10	100
832587	4N35SHORT♣	DIP-6	100	10V@10mA	30	2500	..... \$ .42	\$ .318	\$ .265
833310	TLP124BV♣	SOIC-4	200	5V@1mA	80	3750	..... .88	.67	.51
833707	TLP281-4(GB,F)♣	SOIC-16	100	5V@5mA	80	2500	..... 1.69	1.37	1.21
833862	TLP620(F,T)♣	DIP-4	50	5mA	55	5000	..... .55	.437	.331
833897	TLP620(GB,F,T)♣	DIP-4	100	5mA	55	5000	..... .79	.61	.47
833951	TLP620-4	DIP-16	50	5mA	55	5000	..... 2.19	1.82	1.60
833993	TLP621♣	DIP-4	50	5mA	55	5000	..... ★	Call	Call
834021	TLP621(BL,F,T)♣	DIP-4	200	5mA	55	5000	..... *	.363	.306
834056	TLP621(F,T)♣	DIP-4	50	5V@5mA	55	5000	..... .50	.378	.297
834072	TLP621(GB,F,T)♣	DIP-4	100	5mA	55	5000	..... .50	.378	.287
765222	TLP621-4(F)♣♣	DIP-16	50	5mA	55	5000	..... 2.05	1.67	1.47
834128	TLP624♣	DIP-4	100	1mA	55	5000	..... .84	.64	.53
834275	TLP631GB♣	DIP-6	100	5V@5mA	55	5000	..... .72	.61	.49

\* Please call or visit our website for minimum order quantity and pricing

## High Speed Output

\* Minimum order 10 pieces

Part No.	Product No.	Package	Output Curr. Min.	Typ. Data Rate (bits/s)	Max. Supply Voltage	Iso. Voltage	1	10	100
764941	6N137F	DIP-8	13mA	10M	5V	2500	..... *	\$ .73	\$ .69
765089	TLP115A	SOIC-6	13mA	10M	5V	2500	..... 3.05	2.47	2.41
765126	TLP2200F	DIP-8	6.4mA	5M	20V	2500	..... 2.75	2.53	2.37
833619	TLP2531(F)	DIP-8	3.04mA	1M	15V	2500	..... 2.55	2.12	2.07
765169	TLP2630(F)	DIP-8	13mA	10M	5V	2500	..... 2.19	1.76	1.73
833678	TLP2631F	DIP-8	13mA	10M	5V	2500	..... 2.19	1.77	1.73

## Thyristor Output

Part No.	Product No.	Package	LED Trigger Curr. Max.	Blocking Voltage	Iso. Voltage	1	5	50
833408	TLP161J(U,C,F)	SOIC-4	10mA	600	2500	..... \$ .86	\$ .73	\$ .59
833731	TLP3062S	DIP-5	10mA	600	5000	..... .75	.57	.51
765185	TLP525G(F)	DIP-4	10mA	400	2500	..... .86	.73	.59
765206	TLP525G-2(F)	DIP-8	10mA	400	2500	..... 1.45	1.18	1.04

DIP



SOIC



Mini- Flat 4



\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## TOSHIBA Optocouplers (Continued)

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## Darlington Transistor Output

Part No.	Product No.	Package	LED Trigger Curr. Max.	Blocking Voltage	Iso. Voltage	1	5	50
834232	TLP627(F,T)	DIP-4	1000	300	5000	..... \$ .81	\$ .68	\$ .55
834259	TLP627-2FT	DIP-8	1000	300	5000	..... *	Call	Call
765257	TLP627-4F	DIP-16	1000	300	5000	..... 2.19	1.76	1.55

\* Please call or visit our website for minimum order quantity and pricing.

## LITEON Optocouplers

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## Photo Transistor Output

\* Minimum order 10 pieces

Part No.	Product No.	Package	BV <sub>CEO</sub>	Iso. Volt. (RMS)	Curr. Trans. Ratio (Min.)	1	10	100
790671	LTV-3561	Mini-flat 4	80	3750	50	..... *	Call	Call
790698	LTV-3571	Mini-flat 4	35	3750	50	..... *	Call	Call
878243	LTV-817	DIP-4	35	5000	50	..... *	.175	.139
790823	LTV817S-TA	SOIC-4	35	5000	50	..... *	.175	.139
790719	LTV-817S-TA1	SOIC-4	35	5000	50	..... *	Call	Call
878260	LTV-827	DIP-8	35	5000	50	..... *	.349	.276
790751	LTV-845	DIP-16	35	5000	600	..... .77	.72	.68
790778	LTV-846S	SOIC-16	80	5000	50	..... .84	.71	.56
878286	LTV-847	DIP-16	35	5000	50	..... .83	.73	.55
790794	LTV-847S	SOIC-16	35	5000	50	..... .84	.71	.56
878163	CNY17-3S	SOIC-6	70	5000	100	..... *	.20	.185
878180	CNY17F-3	DIP-6	70	5000	100	..... *	.145	.138

\* Please call or visit our website for minimum order quantity and pricing

## Photo Transistor Output/AC Input

\* Minimum order 10 pieces

Part No.	Product No.	Package	BV <sub>CEO</sub>	Iso. Volt. (RMS)	Curr. Trans. Ratio (Min.)	1	10	100
878227	LTV-814	DIP-4	35	5000	20	..... *	\$ .243	\$ .194
790735	LTV-824	DIP-8	35	5000	20	..... .58	.485	.386

## Phototriac Output

Part No.	Product No.	Package	VDRM (V)	Iso. Volt. (RMS)	Trigger Curr. (mA)	1	5	50
878307	MOC3023	DIP-6	400	5000	±5	..... \$ .52	\$ .437	\$ .348

## AVAGO

## Fiber Optic Transceivers

The HFBR-5701 (IEEE802.3 1000BASE-SX/fiber channel)/5710 (IEEE802.3 1000BASE-SX) are optical transceivers that are compliant with the specifications set forth in the IEEE802.3 (100BASE-SX), fiber channel (100-M5-SN-1, 100-M6-SN-1), and the small form factor pluggable (SFP). Its primary application is servicing Gigabit Ethernet and fiber channel links between optical networking equipment. It offers previously unavailable system cost, upgrade, and reliability benefits by virtue of being hot-pluggable.

The HBCU-5710R electrical transceiver offers full duplex throughput of 1000 Mb/s by transporting data over shielded and unshielded twisted pair category 5 cable with 5-level PAM (Pulse Amplitude Modulation) signals. The 1000BASE-T module takes signals from both the twisted pair category 5 cable and the SerDes interface. Pin count overhead between the MAC and the PHY is minimized and Gigabit Ethernet operation is achieved with maximum space.

Part No.	Product No.	Description	1	10	100
1553336	HFBR-53A5VEM	850nm, SC duplex 3.3V, E shield	\$150.99	\$122.99	\$114.79
1548810	HBCU-5710R	P1000Base-T, low voltage (3.3V) ...	164.99	153.82	144.21
1553352	HFBR-5710LP	For gigabit ethernet	159.99	159.89	149.23
1584722	HFBR-5701LP	For gigabit ethernet & fiber ch.	155.99	145.60	136.50

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## Fiber-Optics

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## AVAGO

## Miniature Link Package

Designed to provide cost effective, high performance fiber optic communication links for information systems and industrial applications with link distances of up to 2.7km. With the HFBR-24X6, the 125MHz analog receiver, data rates of up to 160Mb/s are attainable. Directly compatible with popular industry standard connectors ST, SMA, SC, and FC. Completely specified with multiple fiber sizes.

Applications: LAN, digital cross connect links, central office switch/PBX links, video links, modems and multiplexers, industrial control links.

## Transmitter

Part No.	Product No.	Description	1	10	100
1584562	HFBR-1404Z	SMA, Tx high power	\$20.65	\$19.26	\$18.06
1552632	HFBR-1412TM	ST, Tx standard pwr, threaded/metal port	20.65	19.26	18.06
1584571	HFBR-1412TZ	ST, Tx standard power, threaded port	20.65	19.26	18.06
1584589	HFBR-1412Z	ST, Tx standard power	20.65	19.26	18.06
1552641	HFBR-1414	ST, Tx high power	20.65	19.27	18.06
1584597	HFBR-1414TZ	ST, Tx high power, threaded port	20.65	19.26	18.06

## Receiver

Part No.	Product No.	Description	1	10	100
1584642	HFBR-2402Z	SMA, Rx, 5MBd, TTL output	\$20.65	\$19.26	\$18.06
1552894	HFBR-2412	ST, Rx, 5MBd, TTL output	20.65	19.25	18.06
1552907	HFBR-2412T	ST, Rx, 5MBd, TTL output, threaded port	21.19	19.74	18.51
1552966	HFBR-2416	ST, Rx, 125MHz, analog, threaded port	21.19	19.74	18.51

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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## Versatile Link Package

The most cost effective family of fiber optics from AVAGO consists of discrete transmitters and receivers based on 660nm technology. Optimized for 1mm plastic fiber and 200µm HCS™ fiber.

### Transmitters

Part No.	Product No.	Data Rate Mb/s	Distance (M)		Op. Temp. °C	Pricing		
			POF	HCS		1	10	100
1584600	HFBR-1521Z	5	20	—	-40 – 85	\$10.55	\$9.86	\$9.24
1584618	HFBR-1522Z	1	45	—	-40 – 85	10.55	9.86	9.24
1552739	HFBR-1523	40kBd	110	—	-40 – 85	10.49	9.86	9.24
1552763	HFBR-1527	32/125	40/30	1000/100	0 – 70	★	Call	Call
1552771	HFBR-1528	10	100	900	-40 – 85	12.49	11.62	10.89
1552798	HFBR-1532	1	45	—	0 – 70	11.69	10.82	10.10

★ Please call or visit our website for minimum order quantity and pricing

### Receivers

Part No.	Product No.	Data Rate Mb/s	Distance (M)		Op. Temp. °C	Pricing		
			POF	HCS		1	10	100
1584669	HFBR-2521Z	5	20	—	-40 – 85	\$10.55	\$9.86	\$9.24
1553037	HFBR-2522	1	45	—	-40 – 85	10.85	10.10	9.47
1553061	HFBR-2524	1	10	—	0 – 70	10.85	10.10	9.47
1553070	HFBR-2526	32/125	40/30	1000/100	0 – 70	17.29	16.24	15.15
1553088	HFBR-2528	10	100	900	-40 – 85	19.49	18.18	17.05
1584677	HFBR-2531Z	5	20	—	0 – 70	10.55	9.86	9.24
1553109	HFBR-2532	1	45	—	0 – 70	10.49	9.85	9.23



## 2 & 3 Channel Enclosed Encoders

HEDS-5500/5540 are high-performance optical increment encoders. 2/3 channel digital outputs and single 5V supply input are accessed through five 0.025" square pins on 0.1" centers.

• Operating temp.: -40°C to 100°C • Quick assembly • TTL compatible

Part No.	Product No.	Outputs	Counts/Rev.	Shaft Dia.	1	10	100
1584471	HEDM-5500SB06	2-ch	1000	1/4"	\$54.69	\$51.05	\$47.86
1584491	HEDS-5500SA06	2-ch	500	1/4"	54.69	51.05	47.86
1584503	HEDS-5500SA11	2-ch	500	4mm	54.69	51.05	47.86
1584511	HEDS-5505SA06	2-ch	500	1/4"	54.69	51.05	47.86
1584520	HEDS-5540SA05	3-ch	500	3/16"	54.69	51.05	47.86
1584466	HEDL-6540SB13	3-ch	1000	3/8"	174.69	163.06	152.87



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RoHS Compliant Product  
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Details on Page 1

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## Plastic Optical Fiber Connectors

NEW

1553150



Part No.	Product No.	Description	1	10	100
1553150	HFBR-4501Z	Gray simplex connector/crimp ring	\$ .74	\$ .69	\$ .65
1553168	HFBR-4503	Gray simplex latching connector w/ ring	.64	.60	.56
1584685	HFBR-4505Z	Gray adapter (bulkhead/feedthrough)	1.09	1.01	.95
1584693	HFBR-4506Z	Parchment duplex conn. w/ crimp ring	1.25	1.14	1.07
1553205	HFBR-4513	Blue simplex latching conn. w/ crimp ring	.64	.60	.56
1553221	HFBR-4516	Gray duplex conn. w/ crimp ring	1.25	1.17	1.10
1584706	HFBR-4531Z	Black crimpless simplex non-latching conn.	.63	.59	.548
1584714	HFBR-4593Z	Polishing kit	4.25	3.94	3.70



## Panel Mount Optical Encoders

The HRPG series is a family of miniature panel mount optical encoders, also known as Rotary Pulse Generators (RPG) and digital potentiometers. It is designed to be mounted on a front panel and used as a rotary, data-entry device. The HRPG is very flexible for numerous applications due to the many configuration options available.



Part No.	Product No.	Description	1	10	100
1584984	HRPG-AD32S13F	Pins front with bracket	\$22.35	\$20.86	\$19.56
1584992	HRPG-AS32S11R	Pins rear with bracket	19.95	18.59	17.43



## 1300nm Discrete Optical Components

HFBR-1312/2316 series transmitter/receiver provide low cost fiber optic links. Signal rates over 155MBd, link distances over 5km, DIP panel mountable ST and SC connector receptacles, auto insertable and wave solderable, specified with 62.5/125 5m and 50/125 5m fiber. Compatible with HFBR-0400 series.

HFBR-1119/2219 series data links are high performance for serial optical data communications specified at 266MBd, designed for 50 or 62.5 um core multimode optical fiber at 1300nm.



Part No.	Product No.	Data Rate (MBd)	Distance (m)	Connector	1	10	100
1552587	HFBR-1312T	32/160	5000	ST	\$61.55	\$57.40	\$53.81
1552595	HFBR-1312TZ	32/160	5000	ST	65.95	61.50	57.40
1552851	HFBR-2316T	32/160	5000/2000	ST	61.55	57.40	53.81
1552860	HFBR-2316TZ	32/160	5000/2000	ST	★	Call	Call
1584546	HFBR-1119TZ	266	1500	ST	92.39	86.24	80.85
1584634	HFBR-2119TZ	266	1500	ST	92.39	86.24	80.85

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## Standard-Output LEDs

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### Standard-Output LEDs

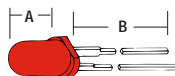


Fig. 1



Fig. 2



Fig. 3



Fig. 4

\* Minimum order 10 pieces

Dialight		MCD		Other Manufacturers — Great Deals										LITEON			
Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
202471	MVL-301HR	1	Orange Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	N/A	*	\$ .062	\$ .05	\$ .038
135597	LTL307E*	1	Orange Red	Red diffused	T1 ¾	0.197/5	0.34	1.00	0.07	2.0	19	635	N/A	*	.12	.096	.072
693901	MCDL-5013GD	1	Green	Red diffused	T1 ¾	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	.08	.06	.05
320282	566-0306	2	Yellow	Yellow diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.1	3.5	583	N/A	1.07	.92	.56	.414
320274	566-0206	2	Green	Green diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.2	4	565	N/A	1.06	.89	.64	.479
320291	566-0406	2	Red	Red diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.0	7.4	635	N/A	.89	.76	.46	.345
658291	MSL-194DR	3	Red	Water clear	SMD0603	—	0.03	0.06	—	1.8	20	660	130	*	.09	.075	.065
658304	MSL-174DR	3	Red	Water clear	SMD0805	—	0.05	0.08	—	1.8	20	660	130	*	.09	.075	.065
658283	MSL-154G	3	Green	Water clear	SMD1206	—	0.06	0.13	—	2.2	6.5	570	130	*	.12	.10	.09
658312	MSL-154DR	3	Red	Water clear	SMD1206	—	0.06	0.13	—	1.8	25	660	130	*	.12	.10	.09
658321	MSL-204DR	4	Red	Water clear	PLCC-2	—	0.11	0.13	—	1.8	50	657	120	.49	.45	.41	.37
658339	MSL-204Y	4	Yellow	Water clear	PLCC-2	—	0.08	0.13	—	2.1	182	590	120	.39	.37	.33	.19
692537	MSL-204G	4	Green	Water clear	PLCC-2	—	0.11	0.13	—	2.1	15	570	120	.49	.45	.35	.29
658355	MSL-204MB	4	Blue	Water clear	PLCC-2	—	0.11	0.13	—	3.5	120	468	120	1.09	.99	.89	.69
658347	MSL-204MW	4	White	Water clear	PLCC-2	—	0.08	0.13	—	3.5	400	—	120	1.09	.99	.89	.69

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 63

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

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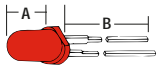


Fig. 1

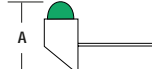


Fig. 2



Fig. 3














































Fig. 4



Fig. 5



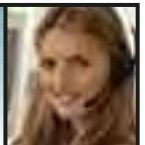
Fig. 6

Minimum order 10 pieces															
Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	WaveLength nm	Viewing Angle	Pricing	
							A"	B"						10	100
697670	LTL-4251 	1	Yellow	Diffused	T1	0.119/3	0.18	1.0	0.1	2.1	8.7	585	40	\$ .087	\$ .077
697688	LTL-4251N 	1	Yellow	Yellow diffused	T1	0.119/3	0.18	1.0	0.1	2.1	5.6	585	60	.087	.077
790145	LTL-1CHY 	1	Yellow	Yellow diffused	T1	0.122/3.1	0.205	1.0	0.1	2.1	8.7	588	60	.087	.078
790330	LTL-4256N 	1	Yellow	Water clear	T1	0.118/3	0.175	1.0	0.1	2.1	40	588	45	.087	.078
790129	LTL-1CHE 	1	Hi-eff Red	Red diffused	T1	0.119/3	0.205	1.0	0.1	2.0	12.6	623	60	.071	.057
697565	LTL-4211N 	1	Hi-eff Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	60	.087	.077
697590	LTL-4221N 	1	Hi-eff Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	60	.042	.041
790250	LTL-4222N 	1	Hi-eff Red	Red transparent	T1	0.118/3	0.175	1.0	0.1	2.0	29	635	45	.087	.078
697581	LTL-4221 	1	Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	40	.087	.077
697629	LTL-4231 	1	Green	Green diffused	T1	0.119/3	0.18	1.0	0.1	2.1	12.6	565	60	.071	.056
697637	LTL-4231N 	1	Green	Green diffused	T1	0.119/3	0.18	1.0	0.1	2.1	12.6	565	60	.087	.077
790111	LTL-16KG 	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	565	—	.042	.041
790137	LTL-1CHG 	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	569	60	.071	.057
790284	LTL-4231N-1 	1	Green	Diffused	T1	0.118/3	0.175	1.0	0.1	2.1	5.6	565	60	.087	.078
790292	LTL-4231NLC 	1	Green	Diffused	T1	0.118/3	0.175	1.0	0.1	1.9	1.1	565	60	.126	.118
697645	LTL-4232N 	1	Green	Transparent	T1	0.119/3	0.18	1.0	0.1	2.1	40	565	45	.087	.077
697549	LTL-307Y 	1	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	29	585	—	.071	.056
697696	LTL-4253 	1	Yellow	Diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	19	585	36	.087	.077
790102	LTL-10253W 	1	Yellow	Yellow diffused	T1 ¾	0.187/4.75	0.283	1.0	0.1	2.1	12.6	588	60	.071	.057
697522	LTL-307E 	1	Hi-eff Red	Red diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.0	19	635	50	.071	.057
790081	LTL-10223W 	1	Hi-eff Red	Red diffused	T1 ¾	0.187/4.75	0.283	1.0	0.1	2.0	60	623	60	.07	.056
697602	LTL-4223 	1	Red	Diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.0	19	635	36	.087	.077
697611	LTL-4224 	1	Red	Transparent	T1 ¾	0.197/5	0.34	0.9	0.1	2.0	90	635	16	.087	.077
790401	LTL2R3SEK 	1	Red	Clear	T1 ¾	0.197/5	0.33	1.0	0.1	2.0	3700	639	30	.335	.27
790348	LTL-4263 	1	Red	Red diffused	T1 ¾	0.197/5	0.34	1.0	0.1	1.8	90	660	40	.184	.167
790225	LTL-307P 	1	Bright Red	Red diffused	T1 ¾	0.197/5	0.34	1.0	0.1	2.1	1.1	697	50	.071	.057
697514	LTL-293SJW 	1	Red/Yellow	Clear, bi-color	T1 ¾	0.119/3	0.18	1.0	0.1	2.0	15	635/585	—	.293	.233
697557	LTL-30EFJ 	6	Red/Green	Bi-color diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	5.6/19	697/565	30	.284	.223
697573	LTL-4213 	1	Red	Diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	3.7	697	36	.071	.057
697531	LTL-307G 	1	Green	Green diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	19	565	50	.071	.055
697653	LTL-4233 	1	Green	Diffused	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	19	565	36	.087	.077
697661	LTL-4234 	1	Green	Transparent	T1 ¾	0.197/5	0.34	0.9	0.1	2.1	60	565	16	.067	.058
790090	LTL-10233W 	1	Green	Green diffused	T1 ¾	0.187/4.75	0.28	1.0	0.1	2.1	40	569	60	.071	.057
790381	LTL-553-11 	2	Green	Green diffused (PCB mnt indicator)	T1 ¾	0.189/4.8	0.236	0.32	0.1	2.1	40	569	60	.12	.116
790399	LTL-709E 	3	Hi-eff Red	Red diffused (1.8mm Dot Point Lamp)	1.8mm	0.2/1.8	0.30	0.236	0.1	2.0	12.6	623	38	.134	.108
697717	LTL-523-11 	2	Hi-eff Red	Red diffused (PCB mnt indicator)	—	0.189/4.8	0.13	0.35	0.1	2.0	60	635	60	.173	.157
697725	LTL-533-11 	2	Green	Green diffused (PCB mnt indicator)	—	0.189/4.8	0.13	0.35	0.1	2.1	40	565	60	.173	.157
790364	LTL-433HR 	4	Hi-eff Red	Red diffused (rectangular)	—	2mmx5mm	0.295	1.0	0.1	2.0	1.7	635	140	.116	.098
790356	LTL-433G 	4	Green	Green diffused (rectangular)	—	2mmx5mm	0.295	1.0	0.1	2.1	1.7	565	140	.116	.098
697813	LTST-C190YKT 	5	Yellow	Clear	SMD 0603	—	0.03	0.06	—	2.1	6	585	130	*	.058
697805	LTST-C190GKT 	5	Green	Water clear	SMD 0603	—	0.03	0.06	—	2.1	6	565	130	*	.058
697784	LTST-C170KRKT 	5	Red	Water clear	SMD 0805	—	0.05	0.08	—	2.0	54	639	130	*	.105
697768	LTST-C170GKT 	5	Green	Water clear	SMD 0805	—	0.05	0.08	—	2.1	6	565	130	*	.071
697776	LTST-C170GKT	5	Green	Water clear	SMD 0805	—	0.05	0.08	—	2.0	35	574	130	*	.105
697848	LTST-S220GKT	5	Green	Clear	SMD 0805	—	0.05	0.08	—	2.1	10	565	130	★	Call
697733	LTST-C150CKT	5	Red	Clear	SMD 1206	—	0.06	0.13	—	1.8	25	660	130	*	.073
697750	LTST-C150KRKT	5	Red	Water clear	SMD 1206	—	0.06	0.13	—	2.0	54	639	130	*	.101
697741	LTST-C150GKT	5	Green	Water clear	SMD 1206	—	0.06	0.13	—	2.1	6	565	130	*	.067
697821	LTST-C930GKT	6	Green	Water clear	1.8mm Dome	0.07/1.8	0.09	0.13	—	2.0	600	574	25	*	.136
697830	LTST-C930KRKT	6	Red	Water clear	1.8mm Dome	0.07/1.8	0.09	0.13	—	2.0	850	639	130	*	.126



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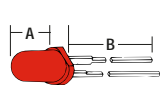


Fig. 1



Fig. 2

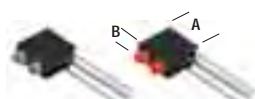


Fig. 3

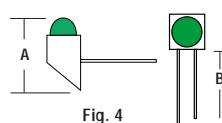


Fig. 4

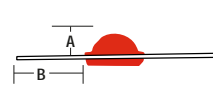


Fig. 5

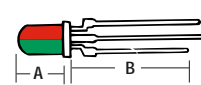


Fig. 6

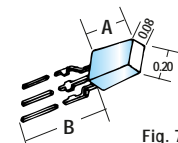


Fig. 7



Fig. 8

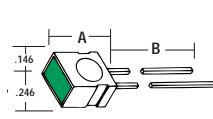


Fig. 9



Fig. 10

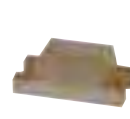


Fig. 11



Fig. 12



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## Standard-Output LEDs

Call for OEM PRICING – we carry major manufacturers.

Quantity SAVE

\* Minimum order 10 pieces

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A*	B*						1	10	100	1000
333219	LY12340	1	Yellow	Yellow diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	585	112	* .08	* .063	* .06	
334211	LA16BY	2	Yellow	Yellow diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	12	585	50	.26	.241	.124	.093
34657	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	* .13	* .11	* .075	
333885	UT6331-4	1	Yellow	Yellow diffused	T1	0.119/3	0.17	0.98	0.10	2.1	24	589	55	* .088	* .069	* .049	
333294	LVY2643-1	1	Yellow	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	350	595	40	.21	.184	.147	.11
206480	LVY2041	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	* .14	* .12	* .10	
136282	LA44B/21	3	Orange	Red diffused (dual)	T1	0.119/3	0.38	0.17	0.10	1.7	12	635	50	.47	.432	.375	.281
333198	LE12340	1	Hi-eff Red	Orange diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	635	112	* .108	* .092	* .069	
333171	HIMP-K155-JV	1	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	* .079	* .078	* .057	
333851	UT6371-41-M1	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	* .098	* .064	* .061	
333251	LSR2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	120	660	40	* .167	* .109	* .082	
333260	LHR2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	300	660	40	.24	.162	.129	.097
206498	LHR2041	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	* .15	* .12	* .09	
334203	LA16B/H	2	Red	Red diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	4.2	697	50	* .14	* .11	* .083	
94529	LH2040	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	.21	.19	.15	.12
114673	LH2043	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	.21	.19	.152	.114
94553	LHG2062	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1	0.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	.29	.25	.21	.16
333392	UT6341-41	1	Orange	Orange diffused	T1	0.119/3	0.17	0.94	0.10	2.1	35	630	55	.23	.189	.087	.071
333833	LI12340	1	Orange	Red diffused	T1	0.119/3	0.16	0.98	0.10	1.7	6.5	635	112	* .081	* .065	* .049	
34606	LSG2040	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	* .15	* .11	* .08	
333201	LG12340	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	* .08	* .063	* .06	
334220	LA16B/G	2	Green	Green diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	15	565	50	.32	.31	.29	.18
136274	LA44B/2G	3	Green	Green diffused (dual)	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.73	.486	.398	.358
175679	LVG2041	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	* .07	* .06	* .05	
114681	LVG2043	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	* .09	* .07	* .055	
137411	LVB2040	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	2.09	1.91	1.66	1.57
334457	LSBI2640	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	—	.83	.69	.66	.64
333383	UT63B1-41-M1A2	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.75	.72	.68	.66
34825	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	0.197/5	0.30	0.82	0.07	2.3	12	585	36	.21	.19	.15	.12
104264	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.36	.324	.259	.194
334406	LY9033	5	Yellow	Water clear	T1 3/4	0.197/5	0.05	0.27	0.03	1.7	30	585	20	.20	.185	.176	.132
334108	UT1831-81-S	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	* .098	* .064	* .061	
333965	UT1834-81-S	1	Yellow	Yellow Clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	55.8	589	22	* .098	* .069	* .049	
334385	UT1833-81-M181	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	450	590	10	* .11	* .064	* .048	
333622	LHY3330/HO	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	350	595	40	.28	.248	.223	.201
334377	UT1841R-81	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	* .098	* .064	* .061	
334060	UT1841R-81-S	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	* .108	* .094	* .07	
333921	UT1844R-81-S	1	Hi-eff Red	Red clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	78.8	630	22	* .098	* .069	* .049	
334271	LA93B/I	4	Hi-eff Red	Red diffused PCB mount indicators	T1 3/4	0.197/5	0.36	0.15	0.10	1.7	25	635	46	.30	.23	.165	.123
34711	LEG3362	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	.33	.28	.22	.19
333973	UT1871-81-M1	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	* .098	* .064	* .061	
334115	UT1872-81-M1	1	Red	White diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.7	75	660	25	* .146	* .116	* .087	
333462	LHR3330/HO/A	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	220	660	40	* .14	* .132	* .099	
334035	UT1871-81-UR-P18	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.94	0.10	1.9	250	660	25	* .12	* .083	* .079	
333489	LUR3330/HO/A	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	380	660	40	.22	.20	.16	.12
94511	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	* .17	* .13	* .10	
104248	LA93B/H-1	4	Red	Red diffused (XC410R)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.26	.23	.19	.17
34745	LH3333	1	Red	Water clear (XC554R)	T1 3/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	* .15	* .11	* .065	
334174	LHI3360	6	Red/Orange	Red diff. bi-color/solid state <sup>1</sup>	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 3.0	697/635	30	.25	.213	.128	.096
334182	LGH3362	6	Red/Green	White diff. bi-color/solid state <sup>1</sup>	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 8.0	697/565	30	.23	.222	.146	.104

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 63

<sup>1</sup> Reverse polarity to change color

Mounting Hardware listed on pages 60-63

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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





























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## Standard-Output LEDs (Continued)

**Quantity SAVE**

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
# See pg 52 for figures  
 \* Minimum order 10 pieces

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
34673	LHG3392 	6	Red/Green	White diff. bi-color/tri-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	\$.24	\$.22	\$.20	\$.14
333244	UT2462-24-D51 	6	Orange/Green	White diff. bi-color/tri-state <sup>1</sup>	T1 3/4	0.197/5	0.30	0.80	0.10	2.1	11.7	630/572	70	.23	.219	.119	.104
333235	LI13530 	1	Orange	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	15	635	70	*	.16	.128	.076
334001	LI3330 	1	Orange	Orange diffused	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	24	635	36	*	.134	.095	.071
333913	LE3331 	1	Orange	Orange transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	635	20	*	.065	.052	.039
34761	LG3330 	1	Green	Green diffused (XC556G)	T1 3/4	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.14	.10
334086	LG13740 	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.077	.074	.073
332227	LG13530 	1	Hi-eff Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	25	565	70	*	.16	.128	.072
104256	LA93B/G-1 	4	Green	Green diffused (XC410G)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	30	565	46	.26	.23	.19	.17
333956	LG3331 	1	Green	Green transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	150	565	20	*	.098	.064	.061
333534	LVG3333/S46 	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	220	565	30	*	.168	.134	.10
334394	UT1821-81-S 	1	Green	Green diffused	T1 3/4	0.197/5	0.35	1.00	0.10	2.1	20	572	44	*	.098	.064	.061
333949	UT1824-81-S 	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	68.1	572	22	*	.114	.073	.052
138691	LVB3330 	1	Blue	Blue diffused	T1 3/4	0.197/5	0.34	0.98	0.10	4.8	10	430	36	1.75	1.58	1.26	1.05
137613	LSBI3333 	1	Blue	Water clear	T1 3/4	0.197/5	0.34	0.98	0.08	3.8	160	430	15	2.05	1.99	1.93	1.68
134332	LT18B3-81UR 	1	Blue	Water clear (383UBC)	T1 3/4	0.197/5	0.30	0.93	0.10	3.8	350	428	20	1.89	1.70	1.60	1.44
351038	MCDL-517GD-F 	1	Green	Green diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.0	15	565	120	.51	.419	.317	.238
351046	MCDL-517YD-F 	1	Yellow	Yellow diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	585	120	.51	.419	.332	.249
351054	MCDL-517AD-F 	1	Amber	Amber diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	585	120	.51	.419	.332	.249
351011	MCDL-517ED-F 	1	Hi-eff Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.7	20	635	120	.55	.52	.46	.323
351020	MCDL-517ED-EF 	1	Orange	Orange diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	635	120	.51	.419	.354	.265
351062	MCDL-517SRD-F 	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	200	660	120	.57	.469	.371	.278
351071	MCDL-517LRD-F 	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	300	660	120	.57	.469	.375	.281
351097	MCDL-517URC-U14-F 	1	Super Red	Water clear blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	300	660	30	.57	.513	.41	.308
34690	LFH3360 	1	Red	Red diff. blinking (XC5410)†	T1 3/4	0.197/5	0.30	0.94	0.07	3-12V	2.8	697	N/A	.49	.45	.39	.35
351003	MCDL-517HD-F 	1	Bright Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	5.0	700	120	.52	.49	.44	.33
119634	LHR3930 	1	Red	Red diffused Jumbo (LT9952L)	T2 1/2	0.315/8	0.44	0.84	0.07	2.0	100	660	44	.23	.20	.15	.113
138683	LHR3630 	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.54	.486	.384	.288
98984	LVG3630 	1	Green	Green diffused XJumbo (XC10G)	T3 1/4	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.27	.26	.19	.13
379647	MCDL-833YD 	1	Yellow	Yellow diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.1	25	590	60	.68	.48	.428	.376
379639	MCDL-833ED	1	Hi-eff Red	Red diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.0	25	635	60	.66	.58	.48	.358
379663	MCDL-833SRD	1	Super Red	Red diffused	T3 1/4	0.393/10	0.47	1.00	0.10	1.8	200	660	60	.78	.63	.57	.43
379604	MCDL-833GD	1	Green	Green diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.2	20	570	60	.66	.59	.475	.356
104889	LEG5292	7	Orange/Green	White diff. bi-color rectangular	2 x 5	—	0.27	1.02	0.08	2.3	6/6	695/565	116	.23	.215	.183	.137
333796	UT7231-81	8	Yellow	Yellow diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	5.0	585	70	.29	.241	.136	.102
333761	UT7241-81	8	Hi-eff Red	Orange diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	*	.097	.078	.059
333770	UT7241R-81	8	Hi-eff Red	Red diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	.19	.158	.118	.13
333788	UT7222-81	8	Green	White diffused rectangular	2.3 x 7.1	—	0.29	0.94	0.10	2.1	6.1	567	70	.24	.209	.149	.111
333702	UT7321-81	9	Green	Green diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	8.8	567	60	.33	.31	.25	.186
333711	UT7331-81	9	Yellow	Yellow diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	7.2	585	60	.29	.243	.184	.138
333691	UT7341R-81	9	Orange	Red diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	10.1	635	60	.35	.30	.212	.152
333745	UT5221-81	8	Green	Green diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	7.1	572	82	*	.092	.073	.055
333753	UT5231-81	8	Yellow	Yellow diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	5.9	589	82	*	.106	.072	.054
333737	UT521R-81	8	Hi-eff Red	Red diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	8.3	630	82	*	.135	.092	.069
334650	UB3541R-11 NRAK	10	Orange	0.35" lightbar	8.9 x 8.9	0.35/8.9	0.20	—	0.10	2.1	7.8	635	N/A	.92	.80	.64	.483
334668	UB3531-11 NYAK	10	Yellow	0.35" lightbar	8.9 x 8.9	0.35/8.9	0.20	—	0.10	2.1	5.5	585	N/A	.95	.80	.64	.483
334676	UB3521-11 NGAK	10	Green	0.35" lightbar	8.9 x 8.9	0.35/8.9	0.20	—	0.10	2.1	6.8	567	N/A	.95	.80	.64	.483
334326	LG-150Y-DT	11	Yellow	White diffused	SMD1206	—	0.06	0.13	—	1.7	5	585	150	*	.135	.092	.069
334297	LG-150Y-CT	11	Yellow	Water clear	SMD1206	—	0.07	0.13	—	1.7	6.0	588	150	*	.127	.09	.067
334318	LG-150E-DT	11	Hi-eff Red	White diffused	SMD1206	—	0.06	0.13	—	1.7	8	635	150	*	.129	.103	.077
334334	LG-150G-DT	11	Green	White diffused	SMD1206	—	0.06	0.13	—	1.7	10	573	140	*	.081	.075	.068
334300	LG-150G-CT	11	Green	Water clear	SMD1206	—	0.07	0.13	—	1.7	12.5	573	140	*	.111	.083	.085
334351	LY9553/TR1	12	Yellow	Water clear surface mount	PLCC-2	—	0.12	0.14	—	1.7	7.0	585	84	*	.172	.138	.104
334369	LG9533/TR1	12	Green	Water clear surface mount	PLCC-2	—	0.12	0.14	—	1.7	9.0	565	84	*	.131	.116	.095

# See pg 52 for figures \* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 63 <sup>1</sup> Reverse polarity to change color <sup>†</sup> Volt. shown is operating volt. range; no current limiting resistor required.

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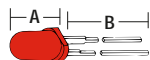


Fig. 1



Fig. 2

Quantity SAVE

\* Minimum order 10 pieces

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333374	LURF2643-1R	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	550	630	40	\$ .20	\$ .18	\$ .173	\$ .13
333340	LHE2643R	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	.25	.225	.18	.135
333358	LUE2643R	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	900	620	40	.24	.23	.21	.158
334749	UT63B3-41-UR33R	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	1.32	1.27	.97	.69
334764	CMD204UWC-JV	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	2.35	2.29	1.71	1.54
206501	LVY3331R	1	Yellow	Yellow transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	.21	.19	.15	.12
206519	LHR3331R	1	Red	Red transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	.21	.189	.151	.113
334490	LHRF3333/S46/A	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	700	630	30	*	.142	.108	.081
333420	LSR3331R	1	Red	Red transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	550	660	20	*	.135	.092	.069
152864	BVU-501RD4	1	Red Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	.29	.24	.19	.15
333497	LSR13233R	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	720	660	18	.20	.18	.144	.108
333631	LUE13733R	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	700	620	25	.24	.216	.194	.175
153154	LVG3333R	1	Green	Water clear (HLMP-8509)	T1 3/4	0.197/5	0.36	0.90	0.10	2.3	500	565	20	*	.081	.065	.049
333551	LVG13233R	1	Green	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	.20	.186	.15	.138
333542	LVG3833R	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	550	565	12	*	.16	.128	.096
334465	LDBK3331/H0R	1	Blue	Blue transparent	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	1.79	1.46	1.29	1.07
334756	UT5KW3-AA-UAE3-TO1	2	White	Water clear	SMD1206	—	0.08	0.14	—	3.2	550	—	120	2.09	1.97	1.79	1.34

## High-Output LEDs

• Typical DC forward current 20mA

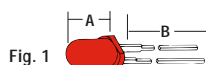


Fig. 1

Fig. 2



Fig. 3

Quantity SAVE

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
217525	MCDPW-3004C	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	\$2.99	\$2.85	\$2.69	\$2.55
333577	LUYS3333R	1	Yellow	Water Clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	587	20	.26	.234	.187	.14
197675	BVT-5E1TT4E	1	Yellow	Water clear	T1 3/4	0.197/5	0.30	1.08	0.08	2.3	2800	592	15	.31	.29	.275	.262
333614	LUY3833H	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.31	.261	.239	.215
333569	LUY3333/A	1	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.29	.267	.202	.152
333593	LHY3833R	1	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.29	.261	.222	.167
333606	MV8315-JV	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	595	12	.30	.264	.211	.158
197617	BVU-5E10H4E	1	Red	Water clear	T1 3/4	0.197/5	0.30	1.05	0.08	1.8	2180	630	15	.39	.35	.29	.25
334423	UT9C13-86-UDC2	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.23	.21	.173	.12
334481	UT1813-86-UC9T-P27	1	Ultra Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.2	3500	642	15	.30	.266	.239	.229
333438	UT1873-81-UR	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	1.9	1000	660	10	.22	.21	.19	.142
333447	UT1873-81-UR-P22	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	1200	660	25	.21	.19	.125	.105
333518	LUR13233R	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	.21	.19	.153	.115
333526	LUR3833R	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.22	.17	.123	.113
333500	LHR3833/A	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	1500	660	12	.25	.214	.136	.102
333665	LEF3833R	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1700	620	12	.25	.205	.175	.172
333649	LHE3333R	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1800	620	20	.30	.232	.177	.132
333657	LUE3333R	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	3400	620	20	.26	.234	.187	.144
333673	LUE3833R	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	620	12	.33	.27	.177	.159
131895	TLSH180P	1	Orange	Water clear	T1 3/4	0.197/5	0.39	0.80	0.10	2.1	10000	623	8	2.49	2.19	1.95	1.79
197683	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.69	.59	.49	.39
334473	LDGL3333/H0	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	1.79	1.45	1.29	1.05
183214	MCDPG-503PC1	1	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	2.95	2.65	2.39	2.15
183222	MCDL-513SBC4	1	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	3.25	2.95	2.65	2.39
334502	LWK3333R	1	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	2.19	1.82	1.45	1.15
334773	UT18W3-86-UAF1-P22	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	475	25	2.05	1.84	1.66	1.49
183231	BVU-5C14WK4-B	1	White	Water clear	T1 3/4	0.197/5	0.30	1.06	0.08	3.5	3000	—	10	2.29	2.04	1.84	1.66
142894	BVU-5E1WK4-B	1	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	2.89	2.66	2.23	2.11
320531	MCDL-5013UWC	1	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	1.39	1.09	.80	.72
197641	BVT-529TT3E	2	Yellow	Yellow transparent	Oval	0.170"/.220"	0.29	1.04	0.08	2.3	7800	592	70	.76	.68	.61	.54
404582	MCDL-1860UWC-15C	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	2.25	2.03	1.82	1.35
664341	MCDL-1870UWC-15C	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	2.25	2.03	1.82	1.35
664405	MCDL-1860UEC-TL	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	1.39	1.26	1.13	.85
664413	MCDL-1870UEC-TL	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	1.39	1.26	1.13	.85
664384	MCDL-1860UYC-TL	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	590	75	1.39	1.26	1.13	.85
664392	MCDL-1870UYC-TL	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	590	40	1.39	1.26	1.13	.85
404603	MCDL-1860UGC-TL	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	2.15	1.94	1.74	1.25
664376	MCDL-1870UGC-TL	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	2.15	1.94	1.74	1.25
664368	MCDL-1870UBC-15C	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	40	2.15	1.94	1.74	1.25
404591	MCDL-1860UBC-15C	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	2.15	1.94	1.74	1.25

## LEDTECH LEDs

• Typical DC forward current 20mA

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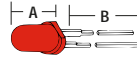


Fig. 1

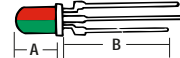


Fig. 2



152805



151416

\* Minimum order 10 pieces

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
156954	LT0373-41 R	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	46	\$.24	\$.22	\$.17	\$.14
156946	LT0362-25-D61 R	2	Red/Green	White diff. bi-color tri-state	T1	0.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	50	.29	.25	.19	.15
152751	LT0344R-41 R	1	Orange Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	36	.21	.19	.16	.12
152785	LT0341R-41 R	1	Orange Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	56	*	.17	.15	.12
152768	LT0324-41 R	1	Green	Green clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	36	*	.077	.059	.057
156930	LT0321-41-HE R	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	56	*	.18	.11	.10
215597	LT2K33-81-UC9T R	1	Yellow	Water clear	T1 3/4	0.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	592	5	.59	.47	.424	.318
242844	LT1811-81 R	1	Red	Red diffused	T1 3/4	0.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	44	*	.12	.10	.06
152805	LT1873-81-UR R	1	Red Ultra Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	12	*	.168	.134	.10
152856	LT1841R-81 R	1	Orange Red	Red diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	44	*	.097	.078	.059
156962	LT1823-81-HE R	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	19	.20	.17	.15	.12
152822	LT1821-81-HE R	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	41	*	.16	.12	.09
152831	LT1831-81-UR R	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	41	.26	.24	.20	.14
White Diffused Backlight																	
151416	LT1F24-A2-S1 R	—	Green	Backlight, diffused	2.05"L x 0.78"H x 0.09"T	8-pin	4.2 @ 20	140 @ 20	567	—	—	—	—	\$3.19	\$2.87	\$2.29	\$1.72

## HLMP Series LEDs

Quantity SAVE



\* Minimum order 10 pieces

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
						A"	B"						1	10	100	1000
253278	HLMP-1301	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	60	*	\$.12	\$.115	\$.103
253665	HLMP-1540	Green	Clear	T1	0.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	45	*	.158	.126	.095
253681	HLMP-1790	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.21	.145	.116	.087
253753	HLMP-3301	Red	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	60	*	.15	.104	.093
11797	QLMP-D141*	Red	Water clear	T1 3/4	0.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	—	*	.158	.112	.073
253833	HLMP-4740	Green	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.20	.18	.144	.108

\*10 pcs. in LEDs &amp; LED Mounting Hardware cabinet kit, pg 63

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## AVAGO LEDs

NEW

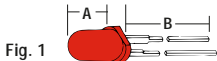


Fig. 1



Fig. 2

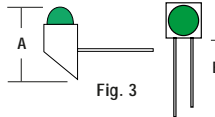


Fig. 3



Fig. 4



Fig. 5



Fig. 6

\* Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A"	B"						1	10	100
1553871	HLMP-1401-D00A1 R	1	Yellow	Yellow diffused	T1	0.119/3	0.19	0.95	0.10	2.0	3.6	583	60	*	\$.367	\$.344
1553820	HLMP-1301-E0002 R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	*	.158	.148
1553838	HLMP-1301-E00A1 R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	*	.367	.344
1554013	HLMP-1601 R	1	Hi-eff Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	2.1	635	60	*	.344	.323
1584950	HLMP-NG07 R	1	Red	Red tinted	T1	0.119/3	0.23	1.00	0.10	1.9	90.2	635	60	*	.20	.18
1554099	HLMP-1700-B0002 R	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	*	.248	.233
1554110	HLMP-1700-B00A2 R	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	*	.448	.42
1555665	HLMP-NL06 R	1	Amber	Water clear	T1	0.119/3	0.34	1.00	0.10	2.0	96.2	592	60	*	.184	.172
1553926	HLMP-1503-C00A1 R	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	*	.367	.344
1553934	HLMP-1503-C00A2 R	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	*	.367	.344
1554056	HLMP-1640 R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	1.6	565	60	*	.344	.323
1554081	HLMP-1641 R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	12.0	1.6	565	60	*	.344	.323
1554144	HLMP-1790-A0002 R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	*	.22	.207
1554603	HLMP-3401-E00B2 R	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	*	.367	.344
1554611	HLMP-3416 R	1	Yellow	Yellow non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	50.0	583	35	*	.138	.129
1554793	HLMP-3862 R	1	Yellow	Yellow tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	9.2	583	60	*	.276	.258
1554494	HLMP-3301-D0000 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	*	.161	.151
1554507	HLMP-3301-D0002 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	*	.161	.151
1554523	HLMP-3301-F0002 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	*	.172	.161
1554574	HLMP-3351 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	5.4	635	50	*	.276	.258
1554697	HLMP-3600 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	5.0	2.1	635	60	*	.344	.323
1554777	HLMP-3762 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	8.6	635	60	*	.276	.258
1584757	HLMP-3301-F0001 R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	*	.17	.158
1584773	HLMP-4000S010 R	2	Grn/Hi-eff Red	Diffused, bi-Color	T1 3/4	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	.60	.57	.526
1554566	HLMP-3316 R	1	Red	Red tinted	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	60.0	635	35	*	.138	.129

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend

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**AVAGO** LEDs (Continued)

NEW

# See pg 55 for figures \* Minimum order 10 pieces

Part No.	Product No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter Inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A"	B"						1	10	100
1554865	HLMP-4700-C00B2R	1	Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	*	\$ .459	\$ .431
1584888	HLMP-D101-J0002R	1	Red	Red tinted/diffused	T1 3/4	0.197/5	0.34	1.05	0.10	1.8	70.0	645	65	*	.20	.18
1584845	HLMP-C008-U0000R	1	Red	Red clear/non-diffused	T1 3/4	0.197/5	0.36	1.02	0.10	1.9	6000.0	626	8	*	.16	.142
1584765	HLMP-3366R	1	Red	Red tinted/non-diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	13.8	635	45	*	.26	.243
1555403	HLMP-D105R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.8	240.0	637	24	*	.184	.172
1555471	HLMP-EG15-RU000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	1500.0	635	15	*	.276	.258
1555489	HLMP-EG24-PS000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	880.0	635	23	*	.23	.215
1555500	HLMP-EG30-NR0DDR	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	680.0	635	30	.29	.276	.258
1584896	HLMP-ED16-TW000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	639	15	*	.39	.36
1584909	HLMP-ED31-RU000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	1500.0	639	30	*	.41	.382
1584917	HLMP-EG08-Y2000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	1.9	9300.0	635	6	*	.34	.315
1555585	HLMP-EL08-VY000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.64	1.00	0.10	2.0	4200.0	592	6	*	.276	.258
1584925	HLMP-EL25-RU000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.1	1500.0	592	23	.58	.539	.505
1584933	HLMP-EL25-TW000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	592	23	*	.41	.382
1584941	HLMP-EL30-PR400R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	880.0	592	30	*	.36	.337
1555278	HLMP-C515R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	2.2	170.0	568	20	*	.276	.258
1555340	HLMP-CM15-S0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	15	.86	.80	.75
1555358	HLMP-CM15-W0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	5500.0	524	15	1.11	1.03	.97
1555366	HLMP-CM30-M0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	524	30	.86	.80	.75
1555374	HLMP-CM30-S0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	30	1.11	1.03	.97
1554662	HLMP-3519R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.7	70.0	565	24	*	.138	.129
1554654	HLMP-3507-D00B2R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	4.2	565	60	*	.459	.431
1554671	HLMP-3554R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	2.1	6.7	565	50	*	.276	.258
1554822	HLMP-3962R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	10.6	565	60	*	.276	.258
1554881	HLMP-4740-A00B2R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	*	.459	.431
1555315	HLMP-CB15-P0000R	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	880.0	470	15	.86	.80	.75
1555331	HLMP-CB30-M0000R	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	470	30	.86	.80	.75
1584853	HLMP-CB11-UVBDDR	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.2	3.2	470	15	.94	.88	.82
1584861	HLMP-CB15-R0000R	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.8	1500.0	472	15	.84	.79	.74
1584870	HLMP-CW30-SV000R	1	White	Untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	3.6	1900.0	—	30	.92	.86	.80
1555761	HLMP-S201R	3	Hi-eff Red	Red tinted/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	1.9	3.4	635	110	*	.138	.129
1555788	HLMP-S301R	3	Yellow	Ylw tint/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.1	2.2	583	110	*	.138	.129
1555796	HLMP-S501R	3	Green	Grn tint/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.2	4.2	565	110	*	.138	.129
1553766	HLMP-0301R	3	Red	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	1.9	2.1	635	100	*	.459	.431
1553774	HLMP-0401R	3	Yellow	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.1	3.6	585	100	*	.459	.431
1553782	HLMP-0504R	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	2.6	565	100	*	.459	.431
1553791	HLMP-0504-B0000R	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	1.6	565	100	*	.459	.431
1585071	HSM-A-S690R	4	Amber	Diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	—	1.9	65.0	590	165	*	.34	.315
1556369	HSMG-C150R	4	Green	Green untinted/diffused	SMD0603	3.2 x 1.6mm†	0.03	0.06	—	2.2	15.0	570	170	*	.092	.086
1556431	HSMH-C190R	4	Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	—	1.8	17.0	660	170	*	.09	.084
1557046	HSM-C190R	4	Hi-eff Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	—	2.1	10.0	630	170	*	.09	.084
1585098	HSM-B-C190R	4	Blue	Diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	—	3.8	6.0	428	170	.60	.56	.53
1556377	HSMG-C170R	4	Green	Green untinted/diffused	SMD0805	3.2 x 1.6mm†	0.05	0.08	—	2.2	15.0	570	170	*	.09	.084
1556422	HSMH-C170R	4	Red	Red untinted/diffused	SMD0805	2 x 1.25mm†	0.05	0.08	—	1.8	17.0	660	170	*	.09	.084
1585080	HSM-B-C170R	4	Blue	Diffused	SMD0805	2 x 1.25mm†	0.05	0.08	—	3.8	6.0	428	170	.60	.57	.526
1556385	HSMG-C190R	4	Green	Green untinted/diffused	SMD1203	1.6 x 0.8mm†	0.01	0.03	—	2.2	15.0	570	170	*	.09	.084
1556414	HSMH-C150	4	Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.12	—	1.8	17.0	660	170	*	.092	.086
1557020	HSM-C150R	4	Hi-eff Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	—	2.1	10.0	630	170	*	.092	.086
1557071	HSMY-C150R	4	Yellow	Yellow untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	—	2.1	8.0	589	170	*	.092	.086
1556406	HSMG-C660R	4	Green	Green untinted/diffused	SMD1208	3 x 2mm†	0.01	0.08	—	2.2	9.0	570	155	*	.202	.189
1557054	HSM-C660R	4	Hi-eff Red	Red untinted/non-diffused	SMD1208	3 x 2mm†	0.01	0.08	—	1.8	16.0	650	155	*	.202	.189
1556300	HSMF-C155R	4	Hi-eff Red/Grn	Diffused, bi-color	SMD1210	3.2 x 2.7mm†	0.11	0.13	—	2.1 / 2.2	10 / 15	630 / 570	170	.24	.22	.144
1554902	HLMP-6000R	5	Red	Red tint/diffused	—	Dome sub	0.12	0.46	—	1.6	3.2	655	90	*	.276	.258
1554945	HLMP-6300R	5	Hi-eff Red	Red tint/diffused	—	Dome sub	0.12	0.46	—	1.8	10.0	635	90	*	.23	.215
1554996	HLMP-6400R	5	Yellow	Yellow tint/diffused	—	Dome sub	0.12	0.46	—	2.0	9.0	583	90	*	.23	.215
1555041	HLMP-6500R	5	Green	Green tint/diffused	—	Dome sub	0.12	0.46	—	2.1	7.0	565	90	*	.23	.215
1555059	HLMP-6500-F0010R	5	Green	Green tint/diffused	—	Dome sub	0.12	0.46	—	2.1	7.0	565	90	*	.344	.323
1555083	HLMP-6505R	5	Green	Green tint/diffused	—	Dome sub	0.12	0.46	—	2.1	40.0	565	28	*	.23	.215
1555104	HLMP-6505-L0021R	5	Green	Green tint/diffused	—	Dome sub	0.12	0.46	—	2.1	40.0	565	28	*	.27	.25
1555219	HLMP-7000R	5	Hi-eff Red	Red tint/diffused	—	Dome sub	0.12	0.46	—	1.8	1.0	635	90	*	.276	.258
1555817	HLMT-PH00-P0011R	5	Orange	Orange untinted/undiffused	—	FT sub	0.10	0.46	—	1.9	120.0	621	125	*	.40	.38
1584781	HLMP-6720R	5	Yellow	Yellow diffused	—	Dome sub	0.12	0.46	—	2.0	2.0	583	90	*	.48	.449
1584790	HLMP-6820R	5	Green	Green diffused	—	Dome sub	0.12	0.46	—	2.1	1.6	565	90	*	.48	.449
1584802	HLMP-7019R	5	Yellow	Yellow tint/diffused	—	Dome sub	0.12	0.46	—	2.0	0.6	583	90	*	.29	.27

† SMT ‡ SMT, right angle # See pg 52 for figures



## LEDs (Continued)

NEW

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# See pg 55 for figures \* Minimum order 10 pieces

Part No.	Product No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter Inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A"	B"						1	10	100
1555711	HLMP-P505-G0011R	5	Green	Green untinted/non-diffused	—	FT sub	0.10	0.46	—	2.1	1.6	565	125	*	\$ .281	\$ .263
1584968	HLMP-Q106-R0011R	5	Red	Untinted/non-diffused	—	Dome sub	0.46	0.12	—	1.9	400.0	654	15	*	.41	.382
1584976	HLMP-Q156-H0021R	5	Red	Untinted/non-diffused	—	Dome sub	0.46	0.12	—	1.6	7.0	654	15	*	.41	.382
1585055	HSMA-A100-Q00J1R	12	Red	Water clear SMT	PLCC-2	—	0.11	0.13	—	1.9	100.0	635	120	*	.12	.109
1585101	HSMA-A100-R00J1R	12	Red	Water clear SMT	PLCC-2	—	0.11	0.13	—	1.9	140.0	635	120	*	.12	.112
1585119	HSMM-A100-S00J1R	12	Green	Water clear SMT	PLCC-2	—	0.11	0.13	—	3.4	350.0	523	120	.80	.75	.70
1585127	HSMM-A101-R00J1R	12	Green	Water clear SMT	PLCC-2	—	0.11	0.13	—	3.4	200.0	523	120	.70	.65	.61
1556211	HSMA-A100-Q00J1R	12	Red	Water clear SMT	PLCC-2	—	0.11	0.13	—	1.9	100.0	635	120	*	.118	.11
1556342	HSMA-A100-J02J1	12	Yellow	Water clear SMT	PLCC-2	—	0.10	0.46	—	2.2	18.0	565	120	*	.087	.082
1556465	HSMA-A100-P00J1R	12	Blue	Water clear SMT	PLCC-2	—	0.11	0.13	—	3.4	70.0	468	120	★	Call	Call
1556449	HSMA-A400-U4WM2R	12	Green	Water clear SMT	PLCC-4	—	0.11	0.13	—	3.4	450.0	518	120	★	Call	Call
1585135	HSMA-A400-Q8QM2R	12	Blue	Water clear SMT	PLCC-4	—	0.11	0.13	—	3.8	80.0	468	120	.72	.68	.64

# See pg 55 for figures ★ Please call or visit our website for minimum order quantity and pricing

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## 7-Segment LED Displays

NEW



Single Digit RHDP

Single Digit RHDP/LHDP

2-Digit RHDP

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
										1	10	100
1551605	HDSP-7403R	0.30	Yellow	CC	10	2.2 @ 20	0.48 @ 5	583	RHDP	\$3.09	\$2.85	\$2.67
1551710	HDSP-A101R	0.30	Red	CA	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.29	3.03	2.84
1551728	HDSP-A103R	0.30	Red	CC	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.29	3.03	2.84
1584394	HDSP-A113R	0.30	Red	CC	10	2.0 @ 20	0.60 @ 1	600	RHDP	3.19	2.96	2.77
1548019	5082-7610R	0.30	Hi-eff. Red	CA	11	2.1 @ 5	0.8 @ 5	645	LHDP	3.05	2.80	2.63
1551613	HDSP-7501R	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.75	2.53	2.37
1551621	HDSP-7501-CD000R	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	3.05	2.82	2.65
1551664	HDSP-7511R	0.30	Hi-eff. Red	CA	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.15	2.89	2.71
1548043	5082-7613R	0.30	Hi-eff. Red	CC	10	2.1 @ 5	0.8 @ 5	645	RHDP	3.05	2.80	2.63
1551648	HDSP-7503R	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.75	2.53	2.37
1584360	HDSP-7504R	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.65	2.48	2.32
1584378	HDSP-7513R	0.30	Hi-eff. Red	CC	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.05	2.82	2.65
1551699	HDSP-7803R	0.30	Green	CC	10	2.1 @ 10	3 @ 10	566	RHDP	2.75	2.53	2.37
1584407	HDSP-A903R	0.30	Green	CC	10	2.1 @ 20	0.47 @ 4	566	RHDP	3.05	2.82	2.65
1551824	HDSP-F151R	0.40	Red	CA	10	1.8 @ 20	15 @ 20	645	RHDP	3.29	3.03	2.84
1551816	HDSP-F113R	0.40	Red	CC	10	1.8 @ 20	0.65 @ 1	645	RHDP	3.29	3.03	2.84
1584415	HDSP-F201-DE000R	0.40	Hi-eff. Red	CA	10	2.0 @ 20	1.2 @ 5	635	RHDP	2.95	2.76	2.58
1551859	HDSP-F203R	0.40	Hi-eff. Red	CC	10	2.0 @ 20	1.2 @ 5	635	RHDP	2.75	2.53	2.37
1584423	HDSP-F401R	0.40	Orange	CA	10	2.0 @ 20	1.2 @ 5	600	RHDP	2.39	2.20	2.07
1551883	HDSP-F501R	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	2.75	2.53	2.37
1584431	HDSP-F501-JK000R	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	2.65	2.46	2.31
1584440	HDSP-F503-JK000R	0.40	Green	CC	10	2.1 @ 10	3.5 @ 10	566	RHDP	2.95	2.76	2.58
1548060	5082-7650R	0.43	Hi-eff. Red	CA	10	2.1 @ 20	1.1 @ 5	635	LHDP	3.05	2.80	2.63
1548078	5082-7651R	0.43	Hi-eff. Red	CA	11	2.1 @ 20	1.1 @ 5	635	RHDP	3.05	2.80	2.63
1551331	HDSP-4601R	0.43	Green	CA	11	2.1 @ 10	4 @ 10	566	RHDP	3.05	2.80	2.63
1551349	HDSP-4603R	0.43	Green	CC	11	2.1 @ 10	4 @ 10	566	RHDP	3.05	2.80	2.63
1551939	HDSP-H101R	0.56	Red	CA	10	1.8 @ 20	0.70 @ 1	645	RHDP	2.99	2.76	2.58
1551963	HDSP-H151R	0.56	Red	CA	10	1.8 @ 20	16 @ 20	645	RHDP	3.09	2.87	2.69
1551971	HDSP-H153R	0.56	Red	CC	10	1.8 @ 20	16 @ 20	645	RHDP	3.09	2.87	2.69
1584458	HDSP-H103-DE000R	0.56	Red	CC	10	1.8 @ 20	0.70 @ 1	645	RHDP	3.19	2.96	2.77
1551445	HDSP-5501R	0.56	Hi-eff. Red	CA	10	2.1 @ 10	2.8 @ 10	635	RHDP	2.49	2.30	2.15
1584335	HDSP-5501-GH000R	0.56	Hi-eff. Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	2.45	2.26	2.12
1551488	HDSP-5221R	0.56	Hi-eff. Red	2-digit CA	18	2.1 @ 20	2.8 @ 10	635	RHDP	3.69	3.44	3.23
1551509	HDSP-5523R	0.56	Hi-eff. Red	2-digit CC	18	2.1 @ 20	2.8 @ 20	635	RHDP	3.69	3.44	3.23
1551525	HDSP-5601R	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.49	2.30	2.15
1584343	HDSP-5601-GH000R	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.75	2.53	2.37
1551568	HDSP-5621R	0.56	Green	2-digit CA	18	2.1 @ 10	2.5 @ 10	566	RHDP	3.69	3.44	3.23
1551533	HDSP-5603R	0.56	Green	CC	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.49	2.30	2.15
1584351	HDSP-5623R	0.56	Green	2-digit CC	18	2.1 @ 10	2.5 @ 10	566	RHDP	3.59	3.36	3.15
1551322	HDSP-3903R	0.80	Hi-eff. Red	CC	13	2.6 @ 100	4.8 @ 20	635	RHDP	4.29	3.99	3.75
1584386	HDSP-8603R	0.80	Green	CC	13	2.1 @ 10	1.5 @ 10	566	RHDP/LHDP	4.19	3.90	3.65

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

R RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Color Code Legend

New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

57

# 7-Segment LED Displays



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

## JAMECO ValuePro 7-Segment LED Displays

The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

### Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



Quantity SAVE



Single Digit RHDP



Single Digit RHDP/LHDP



2-Digit RHDP



5"



3-Digit RHDP



4x7 Hex Character



Dot Matrix



10-Bargraph

202526 pg 59

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
320469	UA3031-16-EWRN	0.30"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	\$ .78	\$ .70	\$ .63	\$ .57
334984	UA3051-12	0.30"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.78	.69	.61	.478
395639	UA3051-16-EWRS	0.30"	Red	CA	11	3.0 @ 20	0.8 @ 10	700	LHDP/RHDP	1.31	1.18	1.16	.98
334800	UC3051-11	0.30"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.82	.80	.64	.50
334802	UC3041R-11	0.30"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.71	.63	.57	.52
334810	UC3041R-20	0.30"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.94	.85	.69	.52
335011	UA3041-12	0.30"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.74	.67	.53	.44
335257	UC3671-11-M1-EWAK	0.36"	Super Bright Red	CC	10	1.7 @ 20	6.0 @ 10	643	RHDP	1.02	.93	.74	.55
334836	UA4071-11-UR EWAK	0.40"	Red	CA	10	1.9 @ 20	25.6 @ 10	660	RHDP	.96	.86	.78	.59
335021	UA4051-11	0.40"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.75	.66	.455	.431
334844	UC4041R-11	0.40"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.77	.73	.56	.44
334828	UC4041-11	0.40"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.77	.61	.46
335054	UN4043-13 EWRS	0.40"	Orange	3-digit CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	1.96	1.88	1.37
334852	UC4031-11	0.40"	Yellow	CC	10	2.1 @ 20	2.3 @ 10	585	RHDP	.88	.79	.63	.48
335038	UA4021-11	0.40"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.92	.83	.75	.56
335214	UC5442-11 EWRS	0.54"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	2.59	2.33	2.10	1.89
335222	UA5422-11 EWRS	0.54"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.79	1.61	1.28	.96
334888	UC5651-11	0.56"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	1.04	.92	.74
334933	UC5652-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	.99	.95	.72	.69
334960	UA5652-11	0.56"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.45	1.39	1.03	.99
335090	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	1.04	.92	.74
334896	UC5641R-11	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.79	.78	.535	.421
334942	UC5642R-11	0.56"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.25	1.00	.85	.68
334976	UA5642R-11	0.56"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.89	.67	.64
335101	UA5641R-11	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.75	.68	.502	.396
335312	UA5641-11	0.56"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.65	.525	.42	.399
334880	UC5641-11	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.69	.63	.437	.421
335152	UA5642-11	0.56"	Orange	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.95	.86	.68	.61
334924	UC5642-11	0.56"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.12	1.00	.80	.75
335185	UM5644R-11 RRRS	0.56"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.75	2.57	2.46	1.84
335127	UA5621-11	0.56"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.79	.65	.42	.399
334862	UC5621-11	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.81	.80	.546	.423
334917	UC5622-11	0.56"	Green	2-digit CC	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.09	1.05	.78	.74
335169	UC5624-11 EWRS	0.56"	Green	4-digit CC	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.45	1.96	1.47
335177	UA5624-11 EWRS	0.56"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.47	2.25	1.69
335194	UM5624-11 EWRS	0.56"	Green	4-digit CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.46	2.36	1.73
334908	UC8041-21 EWRS	0.80"	Orange	CC	13	2.1 @ 20	3.8 @ 10	635	RHDP	1.16	1.05	.94	.85
335281	UJ1141-21 EWRN	1.20"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	—	3.89	3.50	2.80	2.10
335290	UJ2041-22 EWRN	2.00"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	—	3.39	3.15	2.90	2.73

## LEDTECH



### Other Manufacturers — Great Deals



24731	LSD3021-11	0.30"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$ .87	\$ .70	\$ .50	\$ .47
24740	LSD3221-11	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.79	.72	.64	.58
24782	LSD3211-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
17187	LSD5051-11	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.64	.481
17208	LSD5061-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.64	.481
104213	LSD5124-10	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.48	.43	.387	.348
308224	LM5643R-11RRRN	0.56"	Orange	3-digit CC	11	2.1 @ 20	3.3 @ 10	635	RHDP	1.89	1.69	1.35	1.01
308232	LM5644R-11RRRN	0.56"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	3.15	2.69	2.15	1.61
24715	LDD5121-20	0.56"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723	LDD5111-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24694	LDD5124	0.56"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.69	1.52	1.22	.91
24707	LDD5114-20	0.56"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.43	.98	.69
18737	LSD816-11	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.18	1.15	1.10	.99
308259	LA8071-11-MIEWRW	0.80"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.55	1.37	1.24	.93
18753	LSD8151-10	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.10	.94	.80	.68
97172	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99

\* CA-Common Anode/CC-Common Cathode/AR-Anode Row

# LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

† 14 segment

☼ Blue Part No. = Limited Quantity Available

RoHS compliant product

☼ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

# 7-Segment, Alphanumeric, Bar Graph & Light Bar Displays

## 7-Segment LED Displays (Continued)

See pg 58 for photos

LEDTECH		Other Manufacturers — Great Deals											
Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
97199	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	\$5.75	\$5.19	\$4.69	\$4.19
97201	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	3.35	3.00	2.85	2.70
202518	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	8.87	7.98	7.18	6.47
202542	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	6.05	5.45	4.90	4.46
105591	LSD40054-20	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79
202526	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP	32.51	28.43	23.42	17.56
202534	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	20.79	16.61	14.99	11.24

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point ‡ 5 diodes per segment

LITEON

## 7-Segment LED Displays

For more LiteOn LED Displays visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
789970	LTC-2621G	0.28"	Green	3-digit CA	13	2.1 @ 20	2 @ 10	569	RHDP	\$1.85	\$1.78	\$1.73	\$1.65
878201	LTS-312AHR	0.30"	Hi-eff Red	CA	11	2.1 @ 20	2.0 @ 10	623	RHDP/LHDP	.86	.78	.71	.65
790532	LTS-313AHR	0.30"	Hi-eff Red	CC	10	2.0 @ 20	2.0 @ 10	623	RHDP	1.25	1.05	.95	.61
790516	LTS-312AG	0.30"	Green	CA	11	2.1 @ 20	2.0 @ 10	569	RHDP/LHDP	.63	.62	.60	.56
790559	LTS-360HR	0.36"	Hi-eff Red	CA	10	2.0 @ 20	2.0 @ 10	623	RHDP	1.25	1.05	.95	.65
790575	LTS-4940AHR	0.40"	Hi-eff Red	CC	11	2.0 @ 20	2.2 @ 10	623	RHDP	1.08	.91	.82	.56
789996	LTC-4627JR	0.40"	Super Red	4-digit CA	14	2.0 @ 20	0.65 @ 1	631	RHDP	2.35	2.21	2.14	2.07
790591	LTS-546AHR	0.52"	Hi-eff Red	CA	10	2.0 @ 20	2.2 @ 10	623	RHDP	1.49	1.26	1.14	.78
790612	LTS-5703AY	0.56"	Yellow	CC	10	2.1 @ 20	2.4 @ 10	588	RHDP	1.46	1.23	1.11	.76
697485	LTD-6910HR	0.56"	Red	2-digit CA	18	2.0 @ 150	3.9 @ 10	635	RHDP	.99	.91	.81	.78
790031	LTD-6940HR	0.56"	Hi-eff Red	2-digit CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	.89	.87	.84	.81
790006	LTC-5723HR	0.56"	Hi-eff Red	4-digit CC	12	2.0 @ 20	2.4 @ 10	623	RHDP	1.99	1.93	1.87	1.81
790639	LTS-6460G	0.56"	Green	CA	10	2.1 @ 20	2.4 @ 10	569	RHDP	1.46	1.23	1.11	.76
790014	LTD-5621AG	0.56"	Green	2-digit CA	18	2.1 @ 20	2.4 @ 10	569	RHDP	.99	.96	.94	.91
790022	LTD-6410G	0.56"	Green	2-digit CA	18	2.1 @ 20	2.4 @ 10	569	RHDP	.89	.89	.81	.81

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

AVAGO

## Alphanumeric LED Displays

NEW

For more Avago LED Displays visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Character Height	Color Display	Bus Polarity	Pins/Leads	Typical mcd @ mA	Wavelength nm	Pricing			
								1	10	100	1000
1548844	HCMS-2903	0.15	Green	5 x 7 alphanumeric	12	114	568	\$25.59	\$23.88	\$22.38	
1551120	HDLG-2416	0.20	Green	Alphanumeric	18	5.6	568	21.35	19.91	18.67	
1551189	HDSP-0762	0.29	Hi-eff. Red	Hex and numeric	8	0.14	635	45.85	42.75	40.08	
1555876	HPDL-1414	0.11	Red	4-char. alphanumeric	12	1	655	23.19	21.63	20.28	
1584301	HDSP-2111	0.20	Yellow	8-char. alphanumeric	28	7.5	583	42.34	39.52	37.05	
1551251	HDSP-2531	0.20	Yellow	8-char. alphanumeric	30	7.5	583	40.09	37.41	35.07	
1551269	HDSP-2532	0.20	Hi-eff. Red	8-char. alphanumeric	30	7.5	635	40.09	37.41	35.07	
1584327	HDSP-2503	0.27	Green	8-char. alphanumeric	28	7.5	568	45.80	42.74	40.07	

JAMECO ValuePro

## Bargraph & Dot Matrix LED Displays

Quantity SAVE

See pg 58 for photos

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
									1	10	100	1000
334511	UL10000-E-EWAK	—	Green	Bargraph	4	2.1 @ 20	1.4 @ 10	567	\$1.28	\$1.04	\$0.85	\$0.68
334529	UL10000-HR-RRAK	—	Red	Bargraph	4	2.1 @ 20	1.6 @ 10	635	1.25	1.00	.82	.66
334537	UL10000-Y-EWAK	—	Yellow	Bargraph	4	2.1 @ 20	1.1 @ 10	585	1.19	1.07	.85	.64

## Other Manufacturers — Great Deals

32951	TIL311‡	0.300"	Red	4 x 7 Hex char	11	5.0 @ 5	0.1 @ 5	660	\$16.95	\$14.35	\$12.20	\$11.45
218843	CSM57041T-11	0.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	1.95	1.76	1.40	1.05
206560	LTP2157AG	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	1.85	1.65	1.49	1.34
183265	LMD5821ASR-20	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	4.95	4.49	3.95	2.96

\* CC-Common Cathode/CR-Cathode Row/AR-Anode Row ‡ Compatible Jameco socket: P/N 37162, pg 162

LITEON

## Bargraph & Lightbar LED Displays

For more Lite-On LED Displays visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Illuminated Color	Bus Polarity	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
								1	10	100	1000
697469	LTA-1000G	Green	Bargraph	20	2.1 @ 20	2.0 @ 10	565	\$1.02	\$0.86	\$0.69	\$0.61
697477	LTA-1000HR	Hi-eff red	Bargraph	20	2.0 @ 20	2.0 @ 10	635	1.02	.86	.69	.56
697493	LTL-2685HR	Red	Lightbar	16	2.0 @ 20	8.0 @ 10	—	1.59	1.35	1.22	.80
697506	LTL-2885G	Green	Lightbar	16	2.1 @ 20	16.0 @ 10	—	1.59	1.35	1.21	.95

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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NEW

## Bargraph & Lightbar LED Displays

NEW

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visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Illuminated Color	Bus Polarity	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
								1	10	100
1551373	HDSP-4830	Hi-eff. Red	Bargraph	20	1.6 @ 20	1.25 @ 20	655	\$4.95	\$4.59	\$4.30
1551402	HDSP-4832	Hi-eff. Red/ Yellow/ Green	Bargraph	20	2.1 @ 20 / 2.2 @ 20 / 2.1 @ 10	3.5 @ 10/ 1.9 @ 10 / 1.9 @ 10	635/ 583/ 566	6.45	5.99	5.62
1551429	HDSP-4850	Green	Bargraph	20	2.1 @ 10	1.9 @ 10	566	5.89	5.46	5.12
1553686	HLCP-J100	Red	Bargraph	20	1.8 @ 20	1.0 @ 1	645	5.89	5.46	5.12
1554179	HLMP-2300	Hi-eff. Red	Lightbar	4	2.0 @ 20	23 @ 20	635	1.23	1.15	1.08
1554195	HLMP-2350	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	2.09	1.95	1.83
1554208	HLMP-2350-EF000	Lightbar	Lightbar	8	2.0 @ 20	45 @ 20	635	2.29	2.14	2.00
1554216	HLMP-2400	Yellow	Lightbar	4	2.1 @ 20	20 @ 200	583	1.23	1.15	1.08
1554232	HLMP-2450	Yellow	Lightbar	8	2.1 @ 20	38 @ 20	583	2.09	1.95	1.83
1554267	HLMP-2500-FG000	Green	Lightbar	4	2.2 @ 20	25 @ 20	565	1.35	1.26	1.18
1554275	HLMP-2550	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.09	1.95	1.83
1554291	HLMP-2620	Hi-eff. Red	Lightbar	16	2.0 @ 20	23 @ 20	635	3.09	2.87	2.69
1554312	HLMP-2635	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	3.09	2.87	2.69
1554321	HLMP-2655	Hi-eff. Red	Lightbar	16	2.0 @ 20	45 @ 20	635	1.85	1.72	1.61
1554347	HLMP-2685	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	3.09	2.87	2.69
1554398	HLMP-2785	Yellow	Lightbar	16	2.1 @ 20	70 @ 20	583	3.09	2.87	2.69
1554419	HLMP-2800	Green	Lightbar	8	2.2 @ 20	25 @ 20	565	1.85	1.72	1.61
1554427	HLMP-2820	Green	Lightbar	16	2.2 @ 20	25 @ 20	565	3.09	2.87	2.69
1554443	HLMP-2855-FG000	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.05	1.91	1.79
1584749	HLMP-2685-EF000	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	3.29	3.07	2.88

JAMECO BenchPro

### 2-50mA LED Tester

This pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of 12 positions on the socket strip to test at current ratings from 2-50mA. The seven middle positions on the strips are set at 10mA allowing comparison of LEDs in those spaces.

Requires: 9V battery (recommend P/N 198791, pg 246)

Part No.	Description	Size (LxWxH)	Price
354968	LED tester	3.2" x 2.4" x 0.9"	\$8.65



JAMECO BenchPro

### 2-150mA LED Tester

Pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of the 13 positions on the tester at current ratings ranging from 2-30mA. Another 13 position strip ranging from 20mA to 150mA to test other types of LEDs with ACA (anode-cathode-anode) or CAC (cathode-anode-cathode) pin configuration. Includes 9V battery.

Part No.	Description	Size (LxWxH)	Price
355805	LED tester	3.1" x 2.2" x 0.9"	\$8.79



### Design Engineer's

## 139 Piece LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

- 139 piece hardware kit for T1 and T1 3/4 LEDs
- Clear plastic case with dividers
- Size: 8.5"L x 4.5"W x 1.5"H • Weight: 0.4 lbs.



Includes: LED panel lenses and mounts	• Colors: clear, red, yellow, green and blue • Shapes: round, square • Retainers
Pre-wired solderless LED interconnection	• Varied lengths • Standard header pin connector termination • Crimp-type removable connector pins
LED PCB mounts, sockets and standoffs	• Vertical and horizontal mount • Various height LED standoffs • SMT-type connectors • Through-hole type connectors • Resistor-type connectors

Part No.	Description	Price
418731	Engineer's LED hardware kit	\$25.09

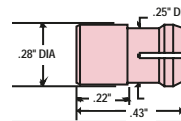
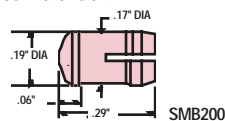
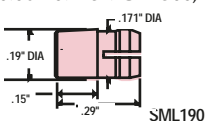
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### T1 & T1 3/4 Cliplite® LED Lens Mounts

Quantity SAVE

Standard and low profile, provide 180° viewing angle. Colors: red, green, amber, yellow and clear. Hole size for T1, 0.171", on 0.250" centers. Panel thickness T1: SML190, 0.031-0.062"; SMB200, 0.062-0.125". Hole size for T1 & T1 3/4, 0.250" on 0.375" centers. Panel thickness, CLF280, 0.062-0.125". CLB300, 0.031-0.0250".



Part No.	Type	Size	Color	1	10	100	1000
417818	SML190RTP	T1	Red	\$ .26	\$ .226	\$ .166	\$ .14
417826	SML190ATP	T1	Amber	.27	.243	.194	.146
417834	SML190GTP	T1	Green	.26	.234	.187	.14
417842	SML190YTP	T1	Yellow	.26	.226	.162	.14
417851	SML190CTP	T1	Clear	.26	.226	.166	.125
417869	SMB200RTP	T1	Red	.26	.226	.166	.125
417877	SMB200ATP	T1	Amber	.26	.226	.167	.125
417885	SMB200GTP	T1	Green	.26	.226	.167	.125
417893	SMB200YTP	T1	Yellow	.27	.233	.167	.125
417906	SMB200CTP	T1	Clear	.26	.226	.167	.14
29612	CLF280RTP	T1 3/4	Red	.28	.252	.202	.152
417914	CLF280ATP	T1 3/4	Amber	.28	.244	.185	.139
417922	CLF280GTP	T1 3/4	Green	.28	.244	.185	.139
417931	CLF280YTP	T1 3/4	Yellow	.28	.244	.181	.136
14277	CLF280CTP	T1 3/4	Clear	.28	.257	.216	.157
417949	CLB300RTP	T1 3/4	Red	.28	.244	.185	.139
417957	CLB300ATP	T1 3/4	Amber	.28	.244	.185	.139
417965	CLB300GTP	T1 3/4	Green	.28	.244	.185	.139
417973	CLB300YTP	T1 3/4	Yellow	.28	.244	.181	.136
124927	CLB300CTP	T1 3/4	Clear	.25	.19	.16	.14



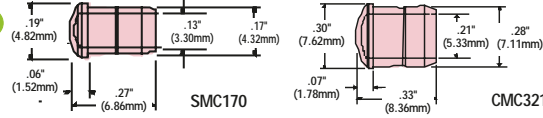
## T1 & T1<sup>3/4</sup> Cliplite® Panel Lens for PCB Mounted LEDs

T1 and T1-3/4 size low-profile panel lenses provide 180° viewing angle. Type SMC170 for T1 LEDs. Hole size: 0.171" on 0.250" centers. CMC321 for T1-3/4 LEDs. Hole size: 0.283" on 0.375" centers. Use retaining ring RNG165 for SMC170 and RNG268 for CMC321/CMC322. RNG268: 0.36" Dia., 0.08" L.

- RNG165: 0.24" Dia., 0.50" L
- RNG132: 0.24" Dia., 0.08" L
- CMC285: 0.21" Dia., 0.285" L
- SMC130: 0.14" Dia., 0.24" L

\* Prepackaged: please order in increments of 10

**Quantity SAVE**



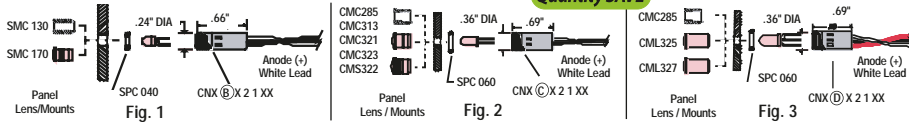
Part No.	Type	Size	Color	1	10	100	1000
417691	SMC170RTP	T1	Red	\$.26	\$.226	\$.166	\$.14
417703	SMC170ATP	T1	Amber	.27	.243	.194	.146
417711	SMC170GTP	T1	Green	.26	.23	.184	.138
417720	SMC170YTP	T1	Yellow	.27	.243	.194	.146
143183	SMC170CTP	T1	Clear	.26	.226	.20	.14
417738	CMC321RTP	T1 3/4	Red	.28	.25	.22	.188
417746	CMC321ATP	T1 3/4	Amber	.25	.23	.184	.138
417754	CMC321GTP	T1 3/4	Green	.29	.26	.208	.188
417762	CMC321YTP	T1 3/4	Yellow	.25	.23	.184	.138
417771	CML325CTP	T1 3/4	Clear	.29	.267	.23	.171
143132	CMC321CTP	T1 3/4	Clear	.29	.261	.209	.157
417797	SMC130CTP	T1	Panel mount clip	*	.173	.138	.104
417800	CMC285CTP	T1 3/4	Panel mount clip	.26	.24	.192	.144
417631	RNG132	—	Ring for SMC130	*	.077	.062	.047
417789	RNG165	—	Ring for SMC285	*	.075	.059	.049
417640	RNG234	—	Ring for CMC321	*	.077	.062	.047



## Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB. 3mm type CNXBE and CNXBX connector assemblies use SMC170 lens or SMC130 mount; 5mm type CNXCE and CNXCX assemblies use a CMC321 lens or CMC285 mount. Thin panels (0.032") use ring spacer type SPC040 for 3mm and type SPC060 for 5mm assemblies. CNXBE, CNXCE and CNXDF cables are supplied with panel and header connector. The BX, CX and DX cables are supplied with panel connector and bare wire leads. CNXV and H series locking headers provide positive locking between PCB and cable assembly.

**Quantity SAVE**



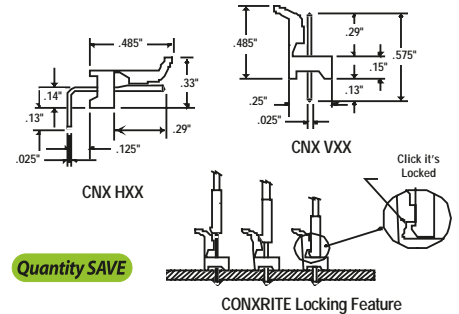
Part No.	Type	Fig.	LED Type	Termination	Length	1	10	100	1000
417375	CNXBE2104	1	T1 (3mm) Bi-lead	2 position connector	4"	\$1.99	\$1.69	\$1.11	\$1.00
143088	CNXBE2108	1	T1 (3mm) Bi-lead	2 position connector	8"	1.50	1.36	1.26	1.19
417383	CNXBE2112	1	T1 (3mm) Bi-lead	2 position connector	12"	1.95	1.76	1.40	1.05
417391	CNXBE2124	1	T1 (3mm) Bi-lead	2 position connector	24"	2.45	2.21	1.76	1.32
417404	CNXBX2104	1	T1 (3mm) Bi-lead	Stripped leads	4"	1.21	1.09	.87	.65
417412	CNXBX2108	1	T1 (3mm) Bi-lead	Stripped leads	8"	1.18	1.06	.85	.64
417421	CNXBX2112	1	T1 (3mm) Bi-lead	Stripped leads	12"	1.36	1.23	.98	.74
417439	CNXBX2118	1	T1 (3mm) Bi-lead	Stripped leads	18"	1.75	1.58	1.26	.95
417447	CNXBX2124	1	T1 (3mm) Bi-lead	Stripped leads	24"	1.79	1.52	1.00	.90
143037	CNXCE2108	2	T1 3/4 (5mm) Bi-lead	2 position connector	8"	1.29	1.25	1.19	1.15
417463	CNXCE2112	2	T1 3/4 (5mm) Bi-lead	2 position connector	12"	2.19	1.86	1.81	1.75
143053	CNXCE2118	2	T1 3/4 (5mm) Bi-lead	2 position connector	18"	1.86	1.67	1.44	1.28
417471	CNXCE2124	2	T1 3/4 (5mm) Bi-lead	2 position connector	24"	2.45	2.07	1.37	1.23
417480	CNXCX2104	2	T1 3/4 (5mm) Bi-lead	Stripped leads	4"	1.10	.99	.90	.70
417498	CNXCX2108	2	T1 3/4 (5mm) Bi-lead	Stripped leads	8"	1.45	1.30	.97	.73
417501	CNXCX2112	2	T1 3/4 (5mm) Bi-lead	Stripped leads	12"	1.55	1.30	1.03	.77
417519	CNXCX2118	2	T1 3/4 (5mm) Bi-lead	Stripped leads	18"	1.86	1.62	1.30	.98
417527	CNXCX2124	2	T1 3/4 (5mm) Bi-lead	Stripped leads	24"	1.89	1.65	1.25	.94
417535	CNXDF2604	3	T1 3/4 (5mm) Tri-lead	3 position connector	4"	2.45	2.21	1.76	1.32
417543	CNXDF2608	3	T1 3/4 (5mm) Tri-lead	3 position connector	8"	2.45	2.21	1.76	1.32
417551	CNXDF2612	3	T1 3/4 (5mm) Tri-lead	3 position connector	12"	2.15	1.93	1.55	1.16
417560	CNXDF2618	3	T1 3/4 (5mm) Tri-lead	3 position connector	18"	2.35	2.12	1.69	1.27
417578	CNXDF2624	3	T1 3/4 (5mm) Tri-lead	3 position connector	24"	2.25	2.03	1.82	1.37
417586	CNXDX2604	3	T1 3/4 (5mm) Tri-lead	Stripped leads	4"	1.85	1.67	1.33	.99
417594	CNXDX2608	3	T1 3/4 (5mm) Tri-lead	Stripped leads	8"	1.85	1.67	1.33	.99
417607	CNXDX2612	3	T1 3/4 (5mm) Tri-lead	Stripped leads	12"	2.15	1.94	1.55	1.16
417615	CNXDX2618	3	T1 3/4 (5mm) Tri-lead	Stripped leads	18"	2.39	2.15	1.72	1.29
417623	CNXDX2624	3	T1 3/4 (5mm) Tri-lead	Stripped leads	24"	2.59	2.33	1.87	1.40

## Conxrite Locking Headers for Use with Cable Assemblies



CNXV and H series locking headers provide positive locking between PCB and cable assembly.

- Mounting P/N 417658: vertical 2-pin
- Mounting P/N 417666: vertical 3-pin
- Mounting P/N 417674: horizontal 2-pin
- Mounting P/N 417682: horizontal 3-pin



**Quantity SAVE**

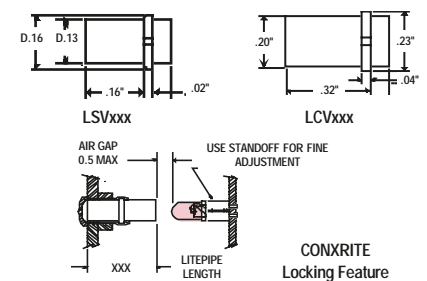
Part No.	Type	1	10	100	1000
417658	CNXV02NTP	\$.28	\$.27	\$.25	\$.24
417666	CNXV03NTP	.42	.378	.302	.227
417674	CNXH02NTP	.34	.306	.245	.184
417682	CNXH03NTP	.33	.297	.263	.197

## Litepipes for PCB-Mounted LEDs



Designed to transmit light from PCB mounted LED to panel display. Cliplite lenses provide the mounting for Litepipes and produce 180° of viewing angle. Use SMB200 for LSV (3mm) litepipe and CLB300 for LCV (5mm) litepipe, see pg 60. For added security use retaining rings RNG190 (3mm) and RNG268 (5mm).

- Mounting color: clear



Part No.	Type	1	10	100	1000
417981	LSV020CTP	\$.28	\$.254	\$.224	\$.189
417990	LSV040CTP	.28	.254	.224	.189
418001	LSV060CTP	.28	.254	.224	.189
418010	LSV080CTP	.28	.254	.224	.189
418028	LSV100CTP	.28	.254	.224	.189
418036	LSV120CTP	.28	.254	.224	.189
418044	LCV036CTP	.28	.254	.224	.189
418052	LCV056CTP	.28	.254	.224	.189
418061	LCV076CTP	.28	.254	.224	.189
418079	LCV096CTP	.28	.254	.224	.189
418087	LCV116CTP	.28	.254	.224	.189
418095	LCV136CTP	.28	.254	.224	.189

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Exceptional Quantity Discounts = Green

# LED Cable Assemblies, Litepipes & Mounting Hardware

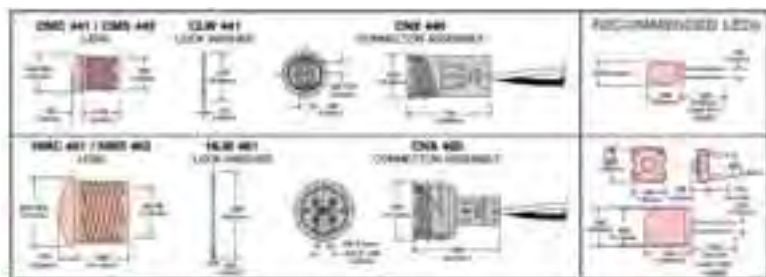
Color Code Legend			
New	Sale	Lower\$	QtySave



## Cable Assemblies for 5mm and 10mm LED Lights

### Features:

- Enhances LED apparent brightness as well as the viewing angle to 180°
- Sealed version exceeds NEMA 4 for dust, water and ice
- Tested for temperature cycling, UV, solar shock and vibration
- Plug and play approach simplifies cable installation



### Pre-Wired Solderless LED holders – Twist Fit

#### 5mm Bi-Lead LED 24 AWG 2-wire/0.025" Header Post

Part No.	Product No.	Length (in.)	1	10	100	500
673758	CNX440-E02-4-1-08	8	\$2.79	\$1.99	\$1.74	\$1.52
673782	CNX440-E02-4-1-12	12	3.05	1.94	1.88	1.60
673791	CNX440-E02-4-1-18	18	3.15	2.05	1.98	1.68
673803	CNX440-E02-4-1-24	24	3.25	2.13	2.06	1.76

#### 5mm Bi-Lead LED 24 AWG 2-Wire/Stripped End

Part No.	Product No.	Length (in.)	1	10	100	500
673811	CNX440-X02-4-1-04	4	\$2.25	\$2.11	\$2.00	\$1.90
673820	CNX440-X02-4-1-08	8	1.85	1.81	1.78	1.73
673838	CNX440-X02-4-1-12	12	1.95	1.91	1.88	1.83

#### 10mm Bi-Lead LED 24 AWG 2-wire/0.025" Header Post

Part No.	Product No.	Length (in.)	1	10	100	500
673862	CNX460-E02-4-1-04	4	\$4.15	\$2.65	\$2.57	\$2.25
673889	CNX460-E02-4-1-08	8	4.15	2.65	2.57	2.25
673897	CNX460-E02-4-1-12	12	4.25	2.80	2.72	2.33
673942	CNX460-E02-4-1-18	18	4.29	2.88	2.79	2.41
673951	CNX460-E02-4-1-24	24	4.39	2.98	2.89	2.49

#### 10mm Bi-Lead LED 24 AWG 2-Wire/Stripped End

Part No.	Product No.	Length (in.)	1	10	100	500
673969	CNX460-X02-4-1-04	4	\$3.15	\$1.99	\$1.93	\$1.68
673977	CNX460-X02-4-1-08	8	3.15	1.99	1.93	1.68
674005	CNX460-X02-4-1-18	18	3.35	2.23	2.16	1.84

Blue Part No. = Limited Quantity Available



## CLIPLITE® Moisture Sealed Litepipe Assemblies

Designed to transmit light from PCB mounted LED (3mm and 5mm) and surface mount LEDs to the front panel display. These litepipes increase the apparent brightness of an LED and disperse the viewing angle of up to 180°. The litepipe assembly meets NEMA-3 for moisture and dust. Because there is no direct connection between the litepipe and LED, the circuit board can be installed or removed without disturbing the panel.



- Mounts in 0.281" holes with 3/8" centers on 1/32" to 1/8" panel thickness

Part No.	Product No.	Length (in.)	Color	1	10	100	500
675761	LMS033CTP	0.33	Clear	\$1.21	\$1.07	\$0.99	\$0.94
675770	LMS033RTP	0.33	Red	1.23	1.07	.99	.94
675788	LMS033GTP	0.33	Green	1.23	1.07	.99	.94
675796	LMS053CTP	0.53	Clear	1.23	1.07	.99	.94
675809	LMS053RTP	0.53	Red	1.23	1.07	.99	.94
675817	LMS053GTP	0.53	Green	1.21	1.07	.99	.94
675825	LMS133CTP	1.33	Clear	1.21	1.07	.99	.94
675833	LMS133RTP	1.33	Red	1.21	1.07	.99	.94
675841	LMS133GTP	1.33	Green	1.21	1.07	.99	.94

Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment

### Lens for Twist Style LED Holders

Includes: Lockwasher and retaining ring

#### 5mm (T1 3/4) Standard Lens

Part No.	Product No.	Color	1	10	100	500
674056	CMC441GTP	Green	\$.75	\$.54	\$.52	\$.384
677610	CMC441BTP	Blue	.75	.54	.52	.384
674064	CMC441YTP	Yellow	.75	.54	.52	.384
674072	CMC441ATP	Amber	.75	.54	.52	.384

#### 5mm (T1 3/4) Water Tight Lens

Part No.	Product No.	Color	1	10	100	500
677636	CMS442ATP	Amber	\$1.47	\$0.97	\$0.94	\$0.74
674101	CMS442GTP	Green	1.47	.97	.94	.74
674110	CMS442YTP	Yellow	1.47	.97	.94	.74
674128	CMS442BTP	Blue	1.47	.97	.94	.74

#### 10mm Standard Lens

Part No.	Product No.	Color	1	10	100	500
674136	HMC461CTP	Clear	\$1.00	\$.86	\$.71	\$.58
674149	HMC461RTP	Red	1.00	.86	.71	.58
674179	HMC461GTP	Green	1.00	.86	.71	.58
674187	HMC461ATP	Amber	1.00	.86	.71	.58
674195	HMC461YTP	Yellow	1.00	.86	.71	.58
674208	HMC461BTP	Blue	1.00	.86	.71	.58

#### 10mm Water Tight Lens

Part No.	Product No.	Color	1	10	100	500
674216	HMS462CTP	Clear	\$1.85	\$1.22	\$1.19	\$.93
674224	HMS462RTP	Red	1.85	1.22	1.19	.93
674232	HMS462GTP	Green	1.85	1.22	1.19	.93
674241	HMS462ATP	Amber	1.85	1.22	1.19	.93
674259	HMS462YTP	Yellow	1.85	1.22	1.19	.93
674267	HMS462BTP	Blue	1.89	1.22	1.19	.93

Blue Part No. = Limited Quantity Available

## LED Mounting Hardware

- P/N 95521: for use with P/N 94545 and 34850, pg 53
- Color: black



Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513	LMH100	T1 snap-in	.185"	Up to .070"	\$.08	\$.07	\$.04
23077	LMH200	T1 3/4 ring & clip	.257"	Up to .125"	.15	.14	.12
95521	LMH250	Rect. snap-in	.306" x .202"	Up to .092"	.20	.15	.13
379815	—	10mm snap-in	.539"	Up to .1025"	.39	.332	.266

## Electronics Pocket Reference

### Third Edition McGraw-Hill Publishing

A pocket reference manual that provides definitions, passive component equations and color coding, parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)

- Size: 4.0" x 6.0" • Weight: 0.9 lbs.

Part No.	Description	Price
174481	Electronics Pocket Reference	\$26.95

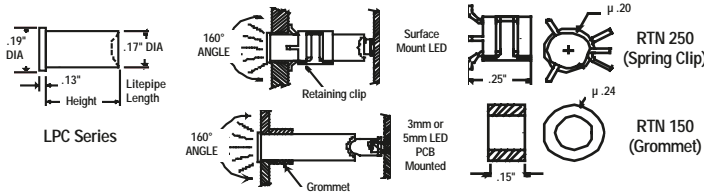


RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Litepipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 3mm and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



\* Prepackaged: please order in increments of 10

Part No.	Type	Mounting Height	1	10	100	1000
418108	LPC020CTP	0.200"	\$.35	\$.32	\$.244	\$.205
418116	LPC022CTP	0.220"	.35	.32	.244	.205
418124	LPC024CTP	0.240"	.35	.32	.244	.205
418132	LPC026CTP	0.260"	.35	.32	.244	.205
418141	LPC028CTP	0.280"	.35	.32	.244	.205
418159	LPC030CTP	0.300"	.35	.32	.244	.205
418167	LPC032CTP	0.320"	.35	.32	.244	.205
418175	LPC034CTP	0.340"	.35	.32	.244	.205
418183	LPC036CTP	0.360"	.35	.32	.244	.205
418191	LPC038CTP	0.380"	.35	.32	.244	.205
418204	LPC040CTP	0.400"	.35	.32	.244	.205
418212	LPC042CTP	0.420"	.35	.32	.244	.205
418221	LPC044CTP	0.440"	.35	.32	.244	.205
418239	LPC046CTP	0.460"	.35	.32	.244	.205
418247	LPC048CTP	0.480"	.35	.32	.244	.205
418255	LPC050CTP	0.500"	.35	.32	.244	.205
418263	LPC056CTP	0.56"	.35	.32	.244	.205
418280	LPC066CTP	0.66"	.35	.32	.244	.205
418301	LPC076CTP	0.76"	.35	.32	.244	.205
418327	LPC086CTP	0.86"	.35	.32	.244	.205
418271	LPC060CTP	0.600"	.35	.32	.244	.205
418298	LPC070CTP	0.700"	.35	.32	.244	.205
418319	LPC080CTP	0.800"	.35	.32	.244	.205
418335	LPC090CTP	0.900"	.35	.32	.244	.205
418343	LPC096CTP	0.960"	.35	.32	.244	.205
418351	LPC100CTP	1.00"	.40	.357	.263	.222
418360	LPC125CTP	1.25"	.40	.357	.263	.222
418378	LPC150CTP	1.50"	.40	.357	.263	.222
418386	LPC160CTP	1.60"	.40	.357	.263	.222
418394	LPC200CTP	2.00"	.40	.357	.263	.222
418407	RTN150	Grommet	*	.074	.059	.049
418415	RTN250	Spring clip	*	.081	.075	.069

## LEDs & LED Mounting Hardware Kit

Includes:

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 298 and labels
- 10 ea. standard-output LEDs (34657, 114673, 114681, 34606, 34825, 34711, 104248), pg 52 (34690, 11359, 34761, 104256, 34673), pg 53
- 10 ea. HLMP series LEDs (11797), pg 55
- 10 ea. LED lens mount (14277), pg 60
- 100 ea. LEDs (94529, 135597), pg 52
- 100 ea. LED mounting hardware (95513, 23077), pg 62



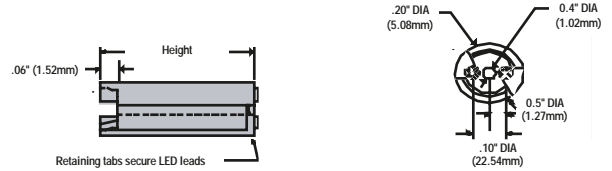
SAVE \$22

Part No.	Description	Wt. (lbs.)	1	10
84996	560 piece kit	5.0	\$69.95	\$63.25



## PCB Standoffs for 2 and 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, resistors, capacitors, diodes, and IR emitter/detector lamps). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



Prepackaged: please order in increments of 10

Part No.	Type	Mounting Height	10	100	1000
418423	STD120BLK	0.120"	\$.093	\$.068	\$.058
418431	STD140BLK	0.140"	.093	.068	.058
418440	STD160BLK	0.160"	.093	.068	.058
418458	STD180BLK	0.180"	.093	.068	.058
418466	STD200BLK	0.200"	.093	.068	.058
418474	STD220BLK	0.220"	.093	.068	.058
418482	STD240BLK	0.240"	.093	.068	.058
418491	STD250BLK	0.250"	.093	.068	.058
418503	STD260BLK	0.260"	.093	.068	.058
418511	STD280BLK	0.280"	.093	.068	.058
418520	STD300BLK	0.300"	.093	.068	.058
418538	STD320BLK	0.320"	.093	.068	.058
418546	STD340BLK	0.340"	.093	.068	.058
418554	STD360BLK	0.360"	.093	.068	.058
418562	STD380BLK	0.380"	.093	.068	.058
418571	STD400BLK	0.400"	.093	.068	.058
418589	STD420BLK	0.420"	.093	.068	.058
418597	STD440BLK	0.440"	.093	.068	.058
418600	STD460BLK	0.460"	.093	.068	.058
418618	STD480BLK	0.480"	.093	.068	.058
418626	STD500BLK	0.500"	.093	.068	.058
418634	STD550BLK	0.550"	.093	.068	.058
418642	STD600BLK	0.600"	.093	.068	.058
418651	STD650BLK	0.650"	.093	.068	.058
418669	STD700BLK	0.700"	.093	.068	.058
418677	STD750BLK	0.750"	.093	.068	.058
418685	STD800BLK	0.800"	.093	.068	.058
418693	STD850BLK	0.850"	.093	.068	.058
418706	STD900BLK	0.900"	.093	.068	.058
418714	STD950BLK	0.950"	.093	.068	.058
418722	STD1.0BLK	1.000"	.093	.068	.058

**JAMECO ValuePro**

## LED Light Strip Modules

- Typical applications: running light or light source for under cabinets, closets, RV's, enclosures



683323

Part No.	Product No.	Color	Input Volt. Typ. (V@mA)	Total Flux Typ. (lm)	Wave Length (nm)	Viewing Angle (Deg.)	Pricing		
683323	LS1155-150A112	Yellow	12 @ 150	25	590	100	\$12.95	\$12.29	\$11.49
683235	LS1255-150A112	Yellow	12 @ 150	25	590	100	12.95	12.29	11.49
683331	LS1155-525W404A	Red/blue/green	4 @ 525	12.5	—	100	18.95	17.95	16.95

www.Jameco.com

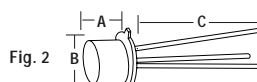
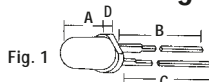
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JAMECO ValuePro

## Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133946: Can be used with cameras, see page 263 (peak emission wavelength: 940nm @ 20mA)



Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
372710	UT0383-41-940	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	940	13	\$ .23	\$ .225	\$ .151	\$ .136
372728	UT0385-41-880	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	880	13	.30	.28	.176	.165
372737	UT1883-81-880	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.32	.22	.176	.158
372745	UT1885-81-880	2	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.30	.28	.176	.158
372761	UT1883-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.25	.197	.129	.097
372779	UT1885-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.29	.23	.151	.136
372817	UT6W83-AE-940	3	Infrared emitter diode (GaAs), sidelook	4.45mm x 2.31mm	—	—	—	—	—	1.3V @ 50mA	940	50	.35	.242	.151	.137
372964	UT0393-46-0125	1	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
372971	UT0395-46-0125	2	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
373000	UT1893-81-0125	1	Infrared phototransistor	T1 3/4	0.200/5	—	—	—	—	—	—	—	.26	.234	.187	.14
373042	UT6W93-AE-0125	3	Infrared phototransistor, side view	4.45mm x 2.31mm	—	—	—	—	—	—	—	—	.30	.28	.22	.198

### Other Manufacturers — Great Deals

112150	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$ .22	\$ .18	\$ .14	\$ .12
133946	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526	LVIR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112169	LT1893-82-0125	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221	BPW77NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.99	1.89	1.55	1.21

Lens color: 1 = water clear; 2 = blue clear

LITEON

## Infrared Light Emitters

For more LiteOn Infrared LEDs visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
790049	LTE-2871	1	Infrared emitter diode	T1 3/4	0.197/5	0.3	0.96	1.00	0.04	1.2V @ 20mA	940	90	★	Call	Call	Call
790057	LTE-302	3	Infrared emitter diode, sidelook	4.4mm x 5.7mm	—	—	—	—	—	1.2V @ 20mA	940	75	.23	.194	.157	.123

★ Please call or visit our website for minimum order quantity and pricing.

JAMECO ValuePro

## LED Replacement Lamps – 585 Series

- Low current draw – 90% less energy than incandescent
- No heat generated
- Long life – up to 100k hours
- Mounts directly into industry standard socket

### Multi-Chip Based LED T1 - Midget Flange - Polarized

- Replaces incandescent lamp numbers: 327, 328, 330, 345, 350, 376, 377, 380, 381, 382, 385, 387, and 7341

Quantity SAVE

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392674	585-1213	Ultra Red	14	20	280	625	\$5.79	\$5.65	\$4.48
392681	585-1313	Green	14	14	500	525	5.49	5.35	4.25
392690	585-1413	Yellow	14	20	530	588	5.15	4.64	3.94
392702	585-1215	Red	28	4.5	350	625	5.79	4.92	3.69
392711	585-1315	Green	28	4.5	300	525	5.49	5.35	4.25
392729	585-1415	Yellow	28	4.5	450	588	5.69	4.67	4.50

A Jameco EXCLUSIVE



392690



### Cluster-Based LED T3 - Miniature Bayonet (BA9s) - Non-Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392551	585-5223	Red	14	20	7000	630	\$9.45	\$7.99	\$5.99
392569	585-5323	Green	14	20	6500	525	9.15	7.76	5.82
392585	585-5523	Yellow	14	20	7000	588	11.15	9.94	9.44
392593	585-5225	Red	28	15	6500	630	9.45	8.03	6.02
392606	585-5325	Green	28	15	6000	525	9.45	8.00	6.00
392622	585-5525	Yellow	28	15	6000	588	12.95	11.01	8.26
392632	585-5256	Red	120VAC	5.5	6500	625	9.89	9.64	8.31
392649	585-5356	Green	120VAC	5.5	7000	525	6.25	5.60	5.45
392665	585-5556	Yellow	120VAC	5.5	6500	590	6.25	5.32	3.99



392569



### Bayonet Based LED T3 Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 757, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
394476	585-4113	Red	14	20	550	630	\$7.85	\$6.67	\$5.01
394492	585-4115	Red	28	14	350	630	7.85	6.67	5.01



394476



♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

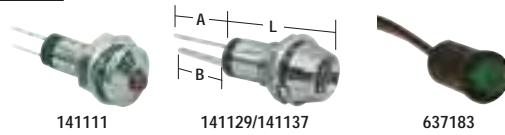
♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## LED Panel-Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing



Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing			
				L	A	B			1	10	100	1000
141111	L922SRD	T1	Red	.56	.34	.25	.23"	2V @ 20mA	\$ .76	\$ .68	\$ .58	\$ .434
141129	L913RD	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.19	.85	.75	.65
141137	L917RD	T1 1/4	Red	.70	.55	.47	.31"	2V @ 20mA	.99	.89	.79	.65
637183	UT2U1G-H113-R801-W05	T1 1/4	Green	.55	5.5	5.5	.24"	12V @ 30mA	1.29	1.05	.87	.76

## Incandescent Panel Mount Lamps

- 215782/215791/215774: wire length - 3.9" (100mm)
- 215749/215758/215766: wire length - 4.9" (125mm)
- 215715/215723/215732: solder terminals - 0.196" (5mm)

Part No.	Cross Ref. No.	Fig.	Voltage	Color	Mounting Hole	1	10	100
215774	R9-46B-W100-12V-R	1	12	Red	1/2" (13mm)	\$2.15	\$1.94	\$1.44
215782	R9-46B-W100-12V-Y	1	12	Yellow	1/2" (13mm)	1.69	1.47	1.20
215791	R9-46B-W100-12V-G	1	12	Green	1/2" (13mm)	2.09	1.87	1.39
215749	R9-55B-W130-12V-R	2	12	Red	9/32" (7mm)	2.15	1.91	1.62
215758	R9-55B-W130-12V-Y	2	12	Yellow	9/32" (7mm)	1.65	1.45	1.19
215766	R9-55B-W130-12V-G	2	12	Green	9/32" (7mm)	1.95	1.75	1.48
215715	R9-71B-05-12V-R	3	12	Red	5/8" (16mm)	1.99	1.77	1.32
215723	R9-71B-05-12V-Y	3	12	Yellow	5/8" (16mm)	1.65	1.45	1.19
215732	R9-71B-05-12V-G	3	12	Green	5/8" (16mm)	1.85	1.65	1.24



## Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

Part No.	Cross Ref. No.	1	10	100
215803	R9-71N-05-120V-R	\$2.09	\$1.86	\$1.58
215811	R9-71N-05-120V-Y	1.79	1.59	1.35
215830	R9-71N-05-120V-G	1.79	1.59	1.35
1585485	32501001714	1.95	1.75	1.49



Part No.	Cross Ref. No.	1	10	100
215803	R9-71N-05-120V-R	\$2.09	\$1.86	\$1.58
215811	R9-71N-05-120V-Y	1.79	1.59	1.35
215830	R9-71N-05-120V-G	1.79	1.59	1.35
1585485	32501001714	1.95	1.75	1.49

## Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer look and feel. Optional power supply below converts 12VDC input into 180V - 800V output needed by lights.



Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Description	1	10	25
239610	FLW1	White light	\$9.95	\$8.95	\$7.95
239572	FLB1	Blue light	9.95	8.46	6.35
239581	FLBL1	Black light	9.95	8.95	7.95
239628	FLY1	Yellow light	9.95	8.95	7.95
239636	FLPS1	12VDC PS	9.95	8.95	7.95

## Electroluminescence Wires

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries
- Length: 4.5'

Part No.	Product No.	Color	1	10	25
263484	NWRB15	Blue	\$21.95	\$20.95	\$19.95
263505	NWRG15	Green	21.95	20.95	19.95
263492	NWRR15	Red	21.95	20.95	19.95



## Lamp Sockets and Lens

### Sockets

Part No.	Product No.	Fig.	Description	1	10	100
394257	35LH002	1	T3 1/4 screw-mini, non-insulated	\$ .64	\$ .50	\$ .47
394265	35LH003	2	T3 1/4 bayonet-mini, insulated	2.05	1.81	1.72
394273	35LH004	3	T3 1/4 bayonet-mini, non insulated	2.25	1.75	1.72
394281	35LH005	4	T3 1/4 bayonet-mini, insulated	2.25	1.77	1.72
394290	35LH006	5	T3 1/4 bayonet-mini, insulated	2.35	1.86	1.81
394302	35LH007	6	T3 1/4 bayonet-mini, insulated	1.95	1.59	1.51
394311	35LH008	7	T3 1/4 bayonet-mini, insulated	1.95	1.60	1.51
394329	35LH010	8	T3 1/4 screw-mini, insulated	.53	.42	.40
394337	35LH011	9	T3 1/4 bayonet-mini, insulated	1.99	1.58	1.51
394345	352-0100	10	T1 1/4 midjet-screw, insulated	1.09	1.00	.89





### Lens

- Use with socket, P/N 394345, left

Part No.	Product No.	Fig.	Description	1	10	100
394370	351-0103	11	Clear, plastic	\$ .37	\$ .254	\$ .238

## CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Soldering: 230°C for 3 seconds
- Operating temperature: -30°C to +70°C
- Cadmium Sulfide (CdS)

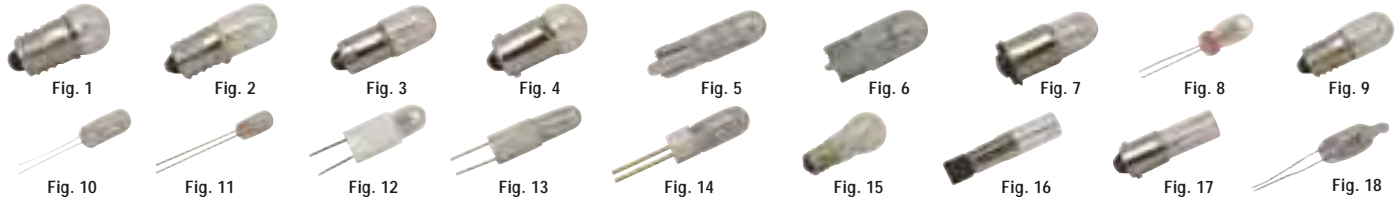
 120299	Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
			Vp	mW	Dark	Light	A	B			1	10	100	1000
 202438	202366	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	\$1.69	\$1.52	\$1.22	\$ .99
	120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.20	1.09	.99
	202391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
	202382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.34	1.21	.99
	202420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	.78	.70	.64	.58
	202403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
	202411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.69	.65	.59	.55
	202438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.34	1.07	.96
120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.29	
120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29	
202454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.69	1.52	1.22	.91	

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# Incandescent & Neon Lamps

More Lamps at [www.Jameco.com/Prod/Lamps](http://www.Jameco.com/Prod/Lamps)

Color Code Legend  
New Sale Lower\$ QtySave



## Incandescent Lamps

Quantity SAVE

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209382	13 R	1	G3 1/2 miniature screw	3.7	.98	\$ .79	\$ .75	\$ .69	\$ .59
209390	14	1	G3 1/2 miniature screw	2.47	.50	.46	.414	.331	.248
209402	40	2	T3 1/4 miniature screw	6.3	.50	.21	.189	.151	.113
209411	44	3	T3 1/4 miniature bayonet	6.3	.90	.21	.19	.17	.125
209429	46	2	T3 1/4 miniature screw	6.3	.90	.37	.333	.283	.226
209437	47	3	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.18	.13
209453	53	4	G3 1/2 miniature bayonet	14.4	1.0	.59	.55	.50	.40
209461	73	5	T1 3/4 wedge	14.0	.30	.32	.288	.251	.219
209470	85	5	T1 3/4 wedge	28.0	.30	.27	.24	.21	.158
209488	86	5	T1 3/4 wedge	6.3	.40	.20	.187	.174	.145
209541	259	6	T3 1/4 wedge	6.3	.65	.27	.243	.194	.146
209550	313	3	T3 1/4 miniature bayonet	28.0	3.5	.23	.21	.198	.149
209701	387	7	T1 3/4 midget flange	28.0	.30	.33	.292	.274	.273
202100	683	8	T1 wire terminal	5.0	.05	.54	.486	.389	.292
209779	715	8	T1 wire terminal	5.0	.15	.99	.89	.71	.533
209787	755	3	T3 1/4 miniature bayonet	6.3	.33	.25	.225	.21	.193
209795	756	3	T3 1/4 miniature bayonet	14.0	.31	.85	.79	.76	.74
209841	1816	3	T3 1/4 miniature bayonet	13.0	3.0	.24	.22	.208	.156
209859	1818	3	T3 1/4 miniature bayonet	24.0	3.3	.81	.78	.75	.56
209867	1819	3	T3 1/4 miniature bayonet	28.0	.34	.23	.21	.198	.149
209875	1820	3	T3 1/4 miniature bayonet	28.0	1.6	.30	.28	.26	.195
209883	1821	9	T3 1/4 screw	28.0	3.4	.99	.89	.79	.59

## Incandescent Lamps (Continued)

Quantity SAVE

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209921	1847	3	T3 1/4 miniature bayonet	6.3	.38	\$ .55	\$ .49	\$ .39	\$ .29
209947	1864	3	T3 1/4 miniature bayonet	28.0	3.0	.55	.50	.40	.30
141073	2182	10	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141065	2200	10	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057	6833	11	T 3/4 wire terminal	5.0	.05	1.25	1.15	1.07	.80
209998	7219	8	T1 wire terminal	12.0	.15	.35	.29	.25	.19
210008	7328	12	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
141006	7361	12	T1 3/4 bi-pin	5.0	.05	.27	.24	.216	.194
210032	7382	12	T1 3/4 bi-pin	14.0	.30	.61	.49	.44	.33
210041	7387	12	T1 3/4 bi-pin	28.0	.30	.75	.65	.54	.405
210059	7632	13	T1 1/4 bi-pin	28.0	.32	1.27	1.14	.91	.69
210075	7715	14	T1 bi-pin	5.0	.15	1.19	1.07	.86	.64
309673	6S6	15	S6 candelabra	120	—	.84	.80	.76	.57
210180	28PSB	16	T2 tel. slide base type 5	28.0	1600	.67	.62	.56	.46
210092	120MB	17	T2 miniature bayonet	120.0	1200	.89	.82	.75	.62
210104	120PSB	16	T2 tel. slide base type 5	120.0	1200	.65	.59	.50	.486

## Neon Lamps

Part No.	Cross Ref. No.	Fig.	Description	Voltage	Pricing			
					1	5	10	100
27351	A1A (NE-2)	18	Wire terminal .6mA	65-120	\$ .42	\$ .35	\$ .31	\$ .26
210315	C2A (NE-2H)	18	Wire terminal	65-120	.29	.234	.207	.185

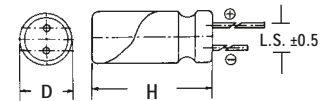
# Electrolytic Capacitors

JAMECO ValuePro

EXCLUSIVE

## Aluminum Radial-Lead Electrolytic Capacitors (±20%)

Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/UA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

## 85°C – General Purpose

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609043	UVR2A0R1MDD	.01	100V	5 x 11 x 2	*	\$ .098	\$ .081	\$ .055
609078	UVR2AR22MDD	.022	100V	5 x 11 x 2	*	.095	.078	.048
609086	UVR2AR33MDD	.033	100V	5 x 11 x 2	*	.096	.077	.058
330465	RA0.47/50	.047	50V	5 x 11 x 2	*	.045	.039	.03
609094	UVR2AR47MDD	.047	100V	5 x 11 x 2	*	.096	.077	.058
330431	RA1/25	1	25V	5 x 11 x 2	*	.045	.039	.03
94161	5R1/50	1	50V	5.2 x 11.6 x 2.3	*	.12	.08	.05
29832	R1/50	1	50V	5 x 11 x 2	*	.063	.053	.042
609035	UVR2A010MDD	1	100V	5 x 11 x 2	*	.099	.066	.05
330544	RA1/160	1	160V	6 x 11 x 2.5	*	.048	.039	.035
330588	RA1/250	1	250V	6 x 11 x 2.5	*	.065	.06	.053
93731	R2.2/50	2.2	50V	5 x 11 x 2	*	.038	.033	.026
199021	R2.2J/100	2.2	100V	5 x 11 x 2	*	.035	.03	.025
609123	UVR2C2R2MED	2.2	160V	6.3 x 11 x 2.5	.20	.18	.144	.108
609182	UVR2E2R2MED	2.2	250V	6.3 x 11 x 2.5	.22	.198	.158	.119
609254	UVR2V2R2MPD	2.2	350V	8 x 11.5 x 3.5	.27	.243	.194	.146
609211	UVR2G2R2MPD	2.2	400V	10 x 12.5 x 5	.30	.27	.216	.162
609051	UVR2A3R3MDD	3.3	100V	5 x 11 x 2	*	.096	.077	.058
609191	UVR2E3R3MPD	3.3	250V	8 x 11.5 x 3.5	.26	.234	.187	.14
609271	UVR2V3R3MPD	3.3	350V	10 x 12.5 x 5	.31	.279	.223	.167
330448	RA4.7/25	4.7	25V	5 x 11 x 2	*	.045	.039	.03
31002	R4.7/50	4.7	50V	6 x 11 x 2	*	.042	.037	.029

Blue P/N = Limited Quantity

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609060	UVR2A4R7MDD	4.7	100V	5 x 11 x 2	*	\$ .104	\$ .083	\$ .062
609158	UVR2C4R7MED	4.7	160V	6.3 x 11 x 2.5	*	.12	.096	.072
330596	RA4.7/250	4.7	250V	8 x 11 x 3.5	*	.112	.094	.083
609297	UVR2V4R7MPD	4.7	350V	10 x 12.5 x 5	.31	.279	.223	.167
609220	UVR2G4R7MPD	4.7	400V	10 x 16 x 5	.38	.342	.274	.206
198838	R10J/16	10	16V	5 x 11 x 2	*	.045	.03	.025
94212	5R10/25	10	25V	4 x 5 x 1.5	*	.13	.08	.05
94220	5R10/35	10	35V	5 x 5 x 2	*	.09	.07	.065
94370	7R10/35	10	35V	5 x 7 x 2	*	.11	.06	.04
29893	R10/50	10	50V	5 x 11 x 2	*	.067	.055	.045
330482	RA10/63	10	63V	5 x 11 x 2	*	.056	.047	.038
199049	R10J/100	10	100V	6 x 11 x 2.5	*	.07	.06	.05
330552	RA10/160	10	160V	8 x 11 x 3.5	*	.11	.09	.08
330608	RA10/250	10	250V	10 x 15 x 5	*	.16	.133	.114
330632	RA10/350	10	350V	10 x 20 x 5	.25	.123	.111	.10
609203	UVR2G100MHD	10	400V	12.5 x 20 x 5	.46	.414	.331	.248
330641	RA10/450	10	450V	13 x 21 x 5	.51	.459	.367	.275
198847	R22J/16	22	16V	5 x 11 x 2	*	.04	.035	.026
189918	R22J/25	22	25V	5 x 11 x 2	*	.032	.027	.023
198942	R22J/35	22	35V	5 x 11 x 2	*	.029	.026	.023
93739	R22/50	22	50V	5 x 11 x 2	*	.068	.058	.043
608972	UVR1J220MDD	22	63V	5 x 11 x 2	*	.087	.058	.047

Blue P/N = Limited Quantity

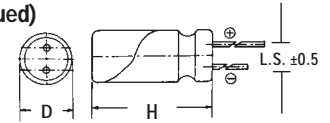
RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

JAMECO ValuePro

## Aluminum Radial-Lead Electrolytic Capacitors (±20%) (Continued)

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



## 85°C – General Purpose (Continued)

Quantity SAVE

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
199057	R22J/100 R	22	100V	6 x 11 x 2.5	\$.19	\$.11	\$.073	\$.061
609107	UVR2C220MPD R	22	160V	10 x 16 x 5	.30	.22	.166	.119
609166	UVR2E220MHD R	22	250V	12.5 x 20 x 5	.49	.365	.266	.196
609246	UVR2V220MHD R	22	350V	12.5 x 25 x 5	.50	.381	.291	.213
330660	RA22/450 R	22	450V	16 x 26 x 7.5	.58	.517	.456	.39
198927	R33J/25 R	33	25V	5 x 11 x 2	*	.05	.039	.028
609027	UVR1V330MDD R	33	35V	5 x 11 x 2	*	.105	.072	.051
93747	R33/50 R	33	50V	6 x 11 x 2.5	*	.055	.05	.045
608999	UVR1J330MED R	33	63V	6.3 x 11 x 2.5	*	.126	.088	.064
609131	UVR2C330MPD R	33	160V	10 x 20 x 5	.45	.348	.257	.187
609262	UVR2V330MHD R	33	350V	16 x 25 x 7.5	.88	.66	.502	.366
330668	RA33/450 R	33	450V	16 x 30 x 7.5	1.09	.97	.86	.62
198863	R47J/16 R	47	16V	5 x 11 x 2	*	.04	.033	.024
198952	R47J/35 R	47	35V	5 x 11 x 2	*	.05	.04	.03
31116	R47/50 R	47	50V	6 x 11 x 2.5	*	.067	.056	.05
330500	RA47/63 R	47	63V	8 x 12 x 3.5	.11	.164	.119	.084
199073	R47J/100 R	47	100V	10 x 12 x 5	*	.15	.13	.10
330562	RA47/160S R	47	160V	10 x 20 x 5	.34	.31	.276	.238
330617	RA47/250 R	47	250V	13 x 25 x 5	.57	.508	.447	.388
609289	UVR2V470MHD R	47	350V	16 x 35.5 x 7.5	1.41	1.08	.83	.60
330676	RA47/450 R	47	450V	18 x 30 x 7.5	1.75	1.21	.92	.70
608809	UVR0J101MDD R	100	6.3V	5 x 11 x 2	*	.089	.066	.043
207813	R100/10 R	100	10V	5 x 11 x 2	*	.08	.06	.045
330422	RA100/16 R	100	16V	5 x 11 x 2	*	.056	.055	.048
94289	5R100/16 R	100	16V	6 x 5 x 2.5	*	.15	.12	.09
94431	7R100/16 R	100	16V	6 x 7 x 2.5	*	.15	.12	.09
93763	R100/25 R	100	25V	6 x 11 x 2.5	*	.078	.056	.039
198970	R100J/35 R	100	35V	6 x 11 x 2.5	*	.07	.06	.05
29964	R100/50 R	100	50V	8 x 11 x 3.5	*	.078	.067	.056
330502	RA100/63 R	100	63V	8 x 14 x 3.5	*	.122	.104	.078
330529	RA100/100 R	100	100V	10 x 20 x 5	.33	.282	.266	.19
330580	RA100/160S R	100	160V	13 x 16.25 x 26.42	.56	.498	.437	.371
330625	RA100/250 R	100	250V	16 x 30 x 7.5	1.25	1.09	.95	.68
609238	UVR2V101MHD R	100	350V	18 x 40 x 7.5	1.44	1.11	.87	.64
330684	RA100/450 R	100	450V	22 x 42 x 10.5	3.39	3.03	2.08	1.87
608833	UVR0J221MDD R	220	6.3V	5 x 11 x 2	*	.122	.083	.06
135124	7R220/10 R	220	10V	6 x 7 x 2.5	*	.136	.10	.074
198872	R220J/16 R	220	16V	6 x 11 x 2.5	.20	.11	.07	.06
30498	R220/25 R	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93772	R220/35 R	220	35V	8 x 12 x 5	*	.09	.08	.07
93780	R220/50 R	220	50V	10 x 15 x 5	*	.167	.133	.10
330510	RA220/63 R	220	63V	10 x 17 x 5	.27	.235	.188	.141
609115	UVR2C221MHD R	220	160V	16 x 35.5 x 7.5	1.32	1.02	.77	.55
609174	UVR2E221MRD R	220	250V	20 x 40 x 10	2.75	2.32	1.80	1.35
608868	UVR0J331MED R	330	6.3V	6.3 x 11 x 2.5	*	.13	.091	.068
608921	UVR1A331MED R	330	10V	6.3 x 11 x 2.5	.23	.15	.104	.072
198891	R330J/16 R	330	16V	8 x 11 x 3.5	*	.132	.066	.056

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
93798	R330/25 R	330	25V	8 x 12 x 3.5	*	\$.144	\$.10	\$.089
198978	R330J/35 R	330	35V	10 x 12 x 5	.25	.18	.14	.10
330472	RA330/50 R	330	50V	10 x 20 x 5	.26	.235	.188	.141
609001	UVR1J331MPD R	330	63V	10 x 20 x 5	.50	.381	.29	.213
93811	R470/16 R	470	16V	8 x 11 x 3.5	*	.11	.103	.099
31182	R470/25 R	470	25V	8 x 14 x 5	*	.133	.111	.083
93819	R470/35 R	470	35V	10 x 16 x 5	.20	.17	.15	.13
93827	R470/50 R	470	50V	10 x 20 x 5	.32	.31	.21	.144
158465	R470B63 R	470	63V	12 x 20 x 5	.39	.366	.326	.271
609019	UVR1J471MHD R	470	63V	12.5 x 20 x 5	.69	.514	.384	.284
199101	R470J/100 R	470	100V	16 x 25 x 7.5	.81	.73	.58	.435
609140	UVR2C471MRD R	470	160V	22 x 40 x 10	2.55	1.98	1.53	1.14
330456	RA680/25S R	680	25V	8 x 16 x 3.5	.97	.87	.70	.525
330393	RA1000/10 R	1000	10V	8 x 14 x 3.5	*	.132	.114	.091
30017	R1000/16 R	1000	16V	10 x 16 x 5	*	.16	.14	.12
93835	R1000/25 R	1000	25V	10 x 20 x 5	.28	.25	.23	.18
286045	Q399L	1000	35V	12 x 20 x 5	.35	.31	.248	.186
93843	R1000/50 R	1000	50V	13 x 25 x 5	.58	.51	.455	.38
608964	UVR1J102MHD R	1000	63V	16 x 25 x 7.5	1.13	.87	.67	.476
199111	R1000J/100 R	1000	100V	18 x 40 x 7.5	2.29	2.06	1.65	1.24
608841	UVR0J222MPD R	2200	6.3V	10 x 20 x 5	.42	.324	.232	.17
608913	UVR1A222MPD R	2200	10V	10 x 20 x 5	.45	.34	.257	.187
133146	R2200/16 R	2200	16V	10 x 20 x 5	.36	.31	.267	.244
30535	R2200/25 R	2200	25V	13 x 21 x 5	.61	.545	.444	.333
198986	R2200J/35 R	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
608956	UVR1H222MHD R	2200	50V	16 x 35.5 x 7.5	1.55	1.14	.87	.62
608981	UVR1J222MHD R	2200	63V	18 x 35.5 x 7.5	1.55	1.18	.91	.68
198987	R3300J/16 R	3300	16V	12 x 25 x 5	.49	.39	.33	.29
30893	R3300/25 R	3300	25V	13 x 29 x 5	.79	.72	.545	.48
198994	R3300J/35 R	3300	35V	16 x 35 x 7.5	.87	.77	.67	.57
199013	R3300J/50 R	3300	50V	18 x 35 x 7.5	2.15	1.94	1.54	1.16
608876	UVR0J472MHD R	4700	6.3V	12.5 x 20 x 5	.73	.56	.423	.315
608930	UVR1A472MHD R	4700	10V	12.5 x 25 x 5	.89	.68	.519	.366
198901	R4700J/16 R	4700	16V	16 x 25 x 7.5	.81	.72	.58	.44
93851	R4700/25 R	4700	25V	16 x 31 x 7.5	1.10	.94	.78	.61
199005	R4700J/35 R	4700	35V	18 x 35 x 7.5	1.15	1.03	.82	.61
163302	R4700/50 R	4700	50V	22 x 42 x 10	2.25	2.03	1.62	1.21
608884	UVR0J682MHD R	6800	6.3V	12.5 x 25 x 5	.94	.73	.56	.40
31511	R6800/16 R	6800	16V	16 x 26 x 7.5	.97	.88	.70	.55
198934	R6800J/25 R	6800	25V	18 x 35 x 7.5	2.05	1.96	1.49	1.15
608817	UVR0J103MHD R	10,000	6.3V	16 x 25 x 7.5	1.33	1.02	.78	.55
608892	UVR1A103MHD R	10,000	10V	16 x 35.5 x 7.5	1.49	1.17	.90	.65
608948	UVR1C103MHD R	10,000	16V	18 x 35.5 x 7.5	1.59	1.23	.94	.67
608825	UVR0J153MHD R	15,000	6.3V	16 x 35.5 x 7.5	1.55	1.19	.95	.65
608905	UVR1A153MHD R	15,000	10V	18 x 35.5 x 7.5	1.59	1.24	.94	.67
608850	UVR0J223MHD R	22,000	6.3V	18 x 40 x 7.5	1.59	1.24	.96	.72

## 105°C – HT Type General Purpose

609545	UVZ1H0R1MDD R	0.1	50V	5 x 11 x 2	\$.20	\$.126	\$.088	\$.056
609617	UVZ1HR22MDD R	0.22	50V	5 x 11 x 2	.20	.13	.091	.06
609625	UVZ1HR33MDD R	0.33	50V	5 x 11 x 2	.20	.13	.091	.06
609633	UVZ1HR47MDD R	0.47	50V	5 x 11 x 2	.20	.13	.091	.06
158481	RO.47B100 R	0.47	100V	5 x 11 x 2	*	.05	.04	.03
607831	UPW1H010MDD R	1	50V	5 x 11 x 2	*	.119	.088	.072
330772	RB1/50 R	1	50V	5 x 11 x 2	*	.056	.046	.036
608323	UPW2A010MDD R	1	100V	5 x 11 x 2	.21	.138	.10	.075
158491	R1B100 R	1	100V	5 x 11 x 2	*	.06	.05	.04

609895	UVZ2D010MED R	1	200V	6.3 x 11 x 2.5	\$.24	\$.164	\$.119	\$.079
609959	UVZ2E010MED R	1	250V	6.3 x 11 x 2.5	.24	.17	.116	.077
610028	UVZ2W010MPD R	1	450V	8 x 11.5 x 3.5	.29	.213	.152	.104
609561	UVZ1H2R2MDD R	2.2	50V	5 x 11 x 2	.13	.103	.07	.052
607937	UPW1H2R2MDD R	2.2	50V	5 x 11 x 2	*	.122	.091	.068
609772	UVZ2A2R2MDD R	2.2	100V	5 x 11 x 2	.20	.13	.091	.06
608366	UPW2A2R2MDD R	2.2	100V	5 x 11 x 2	.21	.138	.10	.075
609844	UVZ2C2R2MED R	2.2	160V	6.3 x 11 x 2.5	.23	.162	.116	.077
609924	UVZ2D2R2MED R	2.2	200V	6.3 x 11 x 2.5	.26	.186	.128	.088

R RoHS compliant product

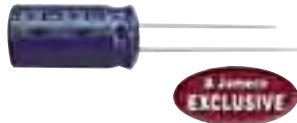
⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend

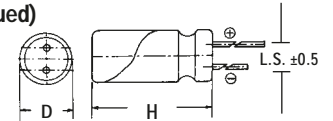
New Sale Lower\$ QtySave

JAMECO ValuePro

Aluminum Radial-Lead Electrolytic Capacitors ( $\pm 20\%$ ) (Continued)

Leakage Current (20°C)	After 1 min.	0.03CV or 4 $\mu$ A, whichever is greater
	After 2 min.	0.01CV or 3 $\mu$ A, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



## 105°C – HT Type General Purpose (Continued)

Quantity SAVE

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609983	UVZ2E2R2MED R	2.2	250V	6.3 x 11 x 2.5	\$.30	\$.211	\$.149	\$.096
610052	UVZ2W2R2MPD R	2.2	450V	10 x 12.5 x 5	.38	.284	.208	.144
607961	UPW1H3R3MDD R	3.3	50V	5 x 11 x 2	*.122	.091	.068	
609799	UVZ2A3R3MDD R	3.3	100V	5 x 11 x 2	.20	.138	.10	.068
608382	UPW2A3R3MDD R	3.3	100V	5 x 11 x 2	.25	.17	.125	.094
609861	UVZ2C3R3MED R	3.3	160V	6.3 x 11 x 2.5	.30	.203	.149	.108
609932	UVZ2D3R3MED R	3.3	200V	6.3 x 11 x 2.5	.30	.211	.144	.096
610001	UVZ2E3R3MPD R	3.3	250V	8 x 11.5 x 3.5	.30	.211	.149	.102
610079	UVZ2W3R3MPD R	3.3	450V	10 x 16 x 5	.44	.332	.25	.17
609596	UVZ1H3R3MDD R	3.6	50V	5 x 11 x 2	.20	.13	.091	.06
607996	UPW1H4R7MDD R	4.7	50V	5 x 11 x 2	*.122	.091	.068	
330781	RB4.7/50 R	4.7	50V	5 x 11 x 2	*.056	.046	.036	
609810	UVZ2A4R7MDD R	4.7	100V	5 x 11 x 2	.20	.138	.10	.068
609887	UVZ2C4R7MED R	4.7	160V	6.3 x 11 x 2.5	.30	.211	.149	.102
609941	UVZ2D4R7MPD R	4.7	200V	8 x 11.5 x 3.5	.31	.229	.174	.12
330851	RB4.7/250 R	4.7	250V	8 x 11 x 3.5	*.14	.122	.105	
610087	UVZ2W4R7MPD R	4.7	450V	10 x 20 x 5	.55	.413	.315	.219
330692	RB10/16 R	10	16V	5 x 11 x 2	*.039	.034	.029	
607849	UPW1H100MDD R	10	50V	5 x 11 x 2	.20	.138	.10	.075
330799	RB10/50 R	10	50V	5 x 11 x 2	*.056	.046	.036	
609641	UVZ1J100MDD R	10	63V	5 x 11 x 2	*.126	.096	.064	
608331	UPW2A100MED R	10	100V	6.3 x 11 x 2.5	.27	.203	.149	.112
158529	R10B100 R	10	100V	6 x 11 x 2.5	*.08	.07	.055	
330844	RB10/160 R	10	160V	8 x 11 x 3.5	*.149	.127	.095	
609908	UVZ2D100MPD R	10	200V	10 x 12.5 x 5	.39	.292	.216	.144
330861	RB10/250 R	10	250V	10 x 17 x 5	.22	.207	.181	.162
610036	UVZ2W100MDD R	10	450V	12.5 x 20 x 5	.84	.65	.493	.349
608059	UPW1J120MDD R	12	63V	5 x 11 x 2	.26	.178	.125	.094
606926	UHE1J150MDD R	15	63V	5 x 11 x 2	*.111	.08	.072	
607110	UHE2A150MED R	15	100V	6.3 x 11 x 2.5	*.146	.108	.081	
608067	UPW1J180MDD R	18	63V	5 x 11 x 2	.26	.194	.141	.106
607401	UPW1A220MDD R	22	10V	5 x 11 x 2	*.13	.094	.071	
158326	R22B35 R	22	35V	5 x 11 x 2	*.07	.05	.03	
607890	UPW1H220MDD R	22	50V	5 x 11 x 2	.26	.178	.125	.094
606811	UHE1H220MDD R	22	50V	5 x 11 x 2	*.113	.083	.062	
330801	RB22/50 R	22	50V	6 x 11 x 2.5	*.067	.055	.04	
609650	UVZ1J220MDD R	22	63V	5 x 11 x 2	.24	.17	.125	.077
608083	UPW1J220MED R	22	63V	6.3 x 11 x 2.5	.26	.194	.141	.106
609828	UVZ2C220MPD R	22	160V	10 x 16 x 5	.45	.332	.241	.179
609975	UVZ2E220MHD R	22	250V	12.5 x 20 x 5	.51	.387	.288	.211
610044	UVZ2W220MHD R	22	450V	16 x 25 x 7.5	1.19	.91	.70	.47
607929	UPW1H270MDD R	27	50V	5 x 11 x 2	.26	.178	.125	.094
609713	UVZ1V330MDD R	33	35V	5 x 11 x 2	.21	.154	.108	.077
608243	UPW1V330MDD R	33	35V	5 x 11 x 2	.25	.17	.116	.087
607072	UHE1V330MDD R	33	35V	5 x 11 x 2	*.113	.083	.062	
609570	UVZ1H330MDD R	33	50V	5 x 11 x 2	.24	.162	.116	.077
607945	UPW1H330MED R	33	50V	6.3 x 11 x 2.5	.26	.194	.141	.106
609684	UVZ1J330MED R	33	63V	6.3 x 11 x 2.5	.26	.178	.133	.094
608104	UPW1J330MED R	33	63V	6.3 x 11 x 2.5	.27	.21	.149	.112
609699	UHE1J330MED R	33	63V	6.3 x 11 x 2.5	*.146	.108	.081	
609781	UVZ2A330MPD R	33	100V	8 x 11.5 x 3.5	.30	.235	.166	.125
608374	UPW2A330MPD R	33	100V	8 x 15 x 3.5	.44	.324	.241	.181
609991	UVZ2E330MHD R	33	250V	12.5 x 20 x 5	.59	.442	.32	.235
610061	UVZ2W330MHD R	33	450V	16 x 35.5 x 7.5	1.49	1.15	.89	.64
608286	UPW1V390MDD R	39	35V	5 x 11 x 2	.26	.178	.125	.094
607144	UHE2A390MPD R	39	100V	8 x 15 x 3.5	.22	.17	.133	.108
609502	UVZ1C470MDD R	47	16V	5 x 11 x 2	*.138	.10	.068	
606723	UHE1E470MDD R	47	25V	5 x 11 x 2	*.113	.083	.062	

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
158246	R47B25 R	47	25V	5 x 11 x 2	*.046	\$.039	\$.029	
609730	UPW1V470MDD R	47	35V	5 x 11 x 2	*.105	.075	.051	
607970	UPW1H470MED R	47	50V	6.3 x 11 x 2.5	.27	.205	.144	.112
607988	UPW1H471MHD R	47	50V	6.3 x 11 x 2.5	.82	.62	.48	.36
330820	RB47/50 R	47	50V	6 x 11 x 2.5	*.102	.08	.057	
608139	UPW1J470MPD R	47	63V	8 x 11.5 x 3.5	.31	.23	.167	.125
609801	UVZ2A470MPD R	47	100V	10 x 12.5 x 5	.35	.267	.191	.143
608391	UPW2A470MPD R	47	100V	10 x 16 x 5	.48	.365	.274	.206
607161	UHE2A470MPD R	47	100V	10 x 12.5 x 5	.22	.17	.133	.10
609879	UVZ2C470MHD R	47	160V	12.5 x 20 x 5	.59	.435	.32	.235
610010	UVZ2E470MHD R	47	250V	12.5 x 25 x 5	.86	.65	.488	.348
607822	UPW1E560MDD R	56	25V	5 x 11 x 2	.25	.17	.125	.094
608008	UPW1H560MED R	56	50V	6.3 x 15 x 2.5	.29	.211	.158	.119
606862	UHE1H560MED R	56	50V	6.3 x 11 x 2.5	*.146	.116	.087	
608155	UPW1J680MPD R	68	63V	8 x 11.5 x 3.5	.40	.292	.216	.162
607507	UPW1A820MDD R	82	10V	5 x 11 x 2	.21	.138	.10	.075
607671	UPW1C820MDD R	82	16V	5 x 11 x 2	.23	.154	.116	.087
607005	UHE1J820MPD R	82	63V	8 x 15 x 3.5	.28	.227	.174	.131
609300	UVZ0J101MDD R	100	6.3V	5 x 11 x 2	*.138	.10	.068	
609414	UVZ1A101MDD R	100	10V	5 x 11 x 2	*.122	.09	.06	
330705	RB100/16 R	100	16V	6 x 11 x 2.5	*.056	.047	.035	
606686	UHE1E101MED R	100	25V	6.3 x 11 x 2.5	*.142	.112	.088	
330740	RB100/25 R	100	25V	6 x 11 x 2.5	*.067	.057	.048	
607700	UPW1E101MED R	100	25V	6.3 x 11 x 2.5	.28	.211	.158	.111
330748	RB100/35 R	100	35V	8 x 11 x 3.5	.20	.084	.08	.074
158394	R100B50 R	100	50V	8 x 11 x 3.5	*.09	.07	.055	
607857	UPW1H101MPD R	100	50V	8 x 11.5 x 3.5	.40	.292	.216	.162
606774	UHE1H101MPD R	100	50V	8 x 11.5 x 3.5	.26	.211	.158	.119
608024	UPW1J101MPD R	100	63V	10 x 12.5 x 5	.45	.335	.245	.184
608032	UPW1J101MPD R	100	63V	8 x 15 x 3.5	.44	.324	.241	.181
330827	RB100/63 R	100	63V	10 x 13 x 5	*.13	.104	.078	
609748	UVZ2A101MPD R	100	100V	10 x 20 x 5	.50	.373	.274	.204
609916	UVZ2D101MHD R	100	200V	16 x 31.5 x 7.5	1.45	1.10	.83	.59
609967	UVZ2E101MHD R	100	250V	16 x 31.5 x 7.5	1.55	1.21	.94	.70
607523	UPW1C121MED R	120	16V	6.3 x 11 x 2.5	.26	.178	.125	.094
606619	UHE1C121MED R	120	16V	6.3 x 11 x 2.5	*.113	.083	.062	
607726	UPW1E121MED R	120	25V	6.3 x 12 x 2.5	.29	.211	.158	.119
606791	UHE1H121MPD R	120	50V	8 x 15 x 3.5	.28	.227	.174	.131
606900	UHE1J121MPD R	120	63V	8 x 20 x 3.5	.34	.275	.208	.156
607101	UHE2A121MPD R	120	100V	10 x 31.5 x 5	.32	.288	.23	.173
608198	UPW1V151MPD R	150	35V	8 x 11.5 x 3.5	.31	.24	.166	.125
607048	UHE1V151MPD R	150	35V	8 x 11.5 x 3.5	.21	.162	.125	.094
606803	UHE1H151MPD R	150	50V	10 x 12.5 x 5	.28	.227	.174	.131
608340	UPW2A151MHD R	150	100V	12.5 x 25 x 5	1.10	.84	.67	.50
607540	UPW1C181MED R	180	16V	6.3 x 12 x 2.5	.26	.194	.141	.106
607881	UPW1H181MPD R	180	50V	8 x 20 x 3.5	.48	.365	.274	.206
608075	UPW1J181MHD R	180	63V	12.5 x 15 x 5	.70	.53	.39	.293
606934	UHE1J181MPD R	180	63V	10 x 20 x 5	.45	.365	.282	.212
607128	UHE2A181MHD R	180	100V	12.5 x 25 x 5	.40	.36	.288	.216
609334	UPW0J221MDD R	220	6.3V	5 x 11 x 2	.22	.146	.108	.077
607259	UPW0J221MED R	220	6.3V	6.3 x 11 x 2.5	.26	.178	.125	.094
607419	UPW1A221MED R	220	10V	6.3 x 11 x 2.5	.26	.194	.141	.106
606555	UHE1A221MED R	220	10V	6.3 x 11 x 2.5	*.138	.11	.083	
311758	R220B10 R	220	10V	6 x 11 x 2.5	.45	.39	.36	.33
609481	UVZ1C221MED R	220	16V	6.3 x 11 x 2.5	.26	.194	.141	.102
158263	R220B25 R	220	25V	8 x 11 x 3.5	*.12	.09	.07	
608201	UPW1V221MPD R	220	35V	10 x 12.5 x 5	.45	.33	.255	.191
608219	UPW1V221MPD R	220	35V	8 x 15 x 3.5	.45	.332	.241	.181

R RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

**JAMECO ValuePro**

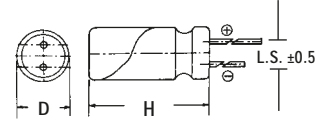
## Aluminum Radial-Lead Electrolytic Capacitors (±20%) (Continued)

**Quantity SAVE**



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater




























† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU






































### 105°C – HT Type General Purpose (Continued)

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330755	RB220/35S 	220	35V	8 x 16 x 3.5	*	\$ .149	\$ .127	\$ .095
607902	UPW1H221MPD 	220	50V	10 x 16 x 5	.48	.365	.274	.206
606820	UHE1H221MPD 	220	50V	10 x 16 x 5	.34	.275	.208	.156
158406	R220B50 	220	50V	10 x 12 x 5	.40	.238	.179	.133
609668	UVZ1J221MPD 	220	63V	10 x 16 x 5	.56	.413	.307	.23
608091	UPW1J221MPD6 	220	63V	10 x 25 x 5	.85	.63	.473	.355
606942	UHE1J221MPD 	220	63V	10 x 25 x 5	.46	.365	.282	.212
609764	UVZ2A221MHD 	220	100V	12.5 x 25 x 5	.85	.66	.49	.357
608358	UPW2A221MHD 	220	100V	16 x 25 x 7.5	1.19	.91	.70	.53
609836	UVZ2C221MHD 	220	160V	16 x 35.5 x 7.5	1.49	1.18	.90	.67
606951	UHE1J271MPD 	270	63V	10 x 31.5 x 5	.60	.486	.374	.281
609369	UVZ0J331MED 	330	6.3V	6.3 x 11 x 2.5	.26	.178	.133	.09
607275	UPW0J331MED 	330	6.3V	6.3 x 11 x 2.5	.31	.211	.149	.112
606483	UHE0J331MED 	330	6.3V	6.3 x 11 x 2.5	*	.13	.104	.078
606651	UHE1C331MPD 	330	16V	8 x 11.5 x 5	.26	.211	.158	.119
607566	UPW1C331MPD 	330	16V	8 x 11.5 x 3.5	.40	.292	.216	.162
330713	RB330/16 	330	16V	8 x 11 x 3.5	.20	.102	.08	.057
609537	UVZ1E331MPD 	330	25V	10 x 12.5 x 5	.29	.219	.166	.111
607777	UPW1E331MPD6 	330	25V	8 x 15 x 3.5	.41	.30	.216	.162
606707	UHE1E331MPD 	330	25V	8 x 15 x 3.5	.25	.194	.155	.116
609721	UVZ1V331MPD 	330	35V	10 x 12.5 x 5	.35	.259	.183	.136
608251	UPW1V331MPD 	330	35V	10 x 16 x 5	.55	.413	.307	.23
608260	UPW1V331MPD6 	330	35V	8 x 20 x 3.5	.55	.413	.307	.23
607081	UHE1V331MPD 	330	35V	10 x 16 x 5	.34	.306	.245	.184
607953	UPW1H331MPD 	330	50V	10 x 20 x 5	.66	.494	.374	.281
606846	UHE1H331MPD 	330	50V	10 x 25 x 5	.46	.365	.282	.212
609692	UVZ1J331MPD 	330	63V	10 x 20 x 5	.63	.478	.357	.255
608112	UPW1J331MHD	330	63V	12.5 x 20 x 5	.86	.65	.485	.364
607136	UHE2A331MHD	330	100V	12.5 x 40 x 5	1.09	.99	.79	.59
609852	UVZ2C331MHD	330	160V	18 x 40 x 7.5	1.89	1.46	1.13	.85
608294	UPW1V391MPD	390	35V	10 x 16 x 5	.70	.527	.39	.293
608121	UPW1J391MHD	390	63V	18 x 15 x 7.5	.99	.76	.58	.434
606977	UHE1J391MHD	390	63V	18 x 15 x 7.5	.71	.58	.44	.33
607152	UHE2A391MHD	390	100V	16 x 31.5 x 7.5	1.11	1.00	.80	.60
609385	UVZ0J471MED	470	6.3V	6.3 x 11 x 2.5	.26	.194	.141	.102
607460	UPW1A471MPD	470	10V	8 x 11.5 x 3.5	.39	.284	.208	.153
606571	UHE1A471MPD	470	10V	8 x 11.5 x 3.5	.25	.193	.154	.116
607603	UPW1C471MPD	470	16V	10 x 12.5 x 5	.42	.308	.224	.168
607611	UPW1C471MPD6	470	16V	8 x 15 x 3.5	.42	.308	.224	.168
158203	R470B16	470	16V	8 x 11 x 3.5	.32	.19	.13	.095
606678	UHE1C471MPD	470	16V	8 x 15 x 3.5	.26	.211	.169	.127
158289	R470B25	470	25V	10 x 15 x 3.5	*	.15	.12	.10
606731	UHE1E471MPD	470	25V	8 x 20 x 3.5	.39	.316	.241	.181
606740	UHE1E471MPD6	470	25V	10 x 16 x 5	.39	.316	.241	.181
607793	UPW1E471MPD	470	25V	10 x 16 x 5	.54	.413	.307	.23
607806	UPW1E471MPD6	470	25V	8 x 20 x 3.5	.54	.413	.307	.23
608307	UPW1V471MPD	470	35V	10 x 20 x 5	.70	.53	.398	.299
330763	RB470/35	470	35V	10 x 15 x 5	.31	.268	.215	.161
609609	UVZ1H471MHD	470	50V	12.5 x 20 x 5	.84	.64	.481	.34
607988	UPW1H471MHD	470	50V	12.5 x 20 x 5	.82	.62	.48	.36
606854	UHE1H471MHD	470	50V	10 x 31.5 x 5	.60	.49	.374	.281
608147	UPW1J471MHD	470	63V	12.5 x 31.5 x 5	.99	.76	.59	.443
606985	UHE1J471MHD	470	63V	12.5 x 31.5 x 5	.74	.59	.457	.343
608016	UPW1H561MHD	560	50V	12.5 x 25 x 5	.97	.73	.55	.437
606504	UHE0J681MPD	680	6.3V	8 x 11.5 x 3.5	.25	.203	.162	.122
606598	UHE1A681MPD	680	10V	8 x 15 x 3.5	.26	.211	.158	.119
607654	UPW1C681MPD	680	16V	10 x 16 x 5	.53	.397	.299	.224
607662	UPW1C681MPD6	680	16V	8 x 20 x 3.5	.53	.397	.299	.224

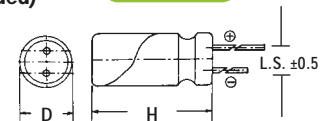
Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
606766	UHE1E681MPD 	680	25V	10 x 20 x 5	\$.45	\$.365	\$.282	\$.212
608315	UPW1V681MHD 	680	35V	12.5 x 20 x 5	.86	.63	.485	.364
607099	UHE1V681MPD 	680	35V	10 x 31.5 x 5	.58	.47	.365	.274
606871	UHE1H681MHD 	680	50V	12.5 x 31.5 x 5	.74	.59	.457	.343
608163	UPW1J681MHD 	680	63V	16 x 25 x 5	1.19	.91	.70	.52
606993	UHE1J681MHD 	680	63V	12.5 x 40 x 5	.78	.70	.534	.404
607179	UHE2A681MHD 	680	100V	18 x 35.5 x 7.5	1.43	1.12	.89	.67
607355	UPW0J821MPD 	820	6.3V	8 x 15 x 3.5	.40	.292	.216	.162
607689	UPW1C821MPD 	820	16V	10 x 20 x 5	.62	.462	.349	.262
607013	UHE1J821MHD 	820	63V	16 x 31.5 x 7.5	1.11	.99	.79	.59
606432	UHE0J102MPD 	1000	6.3V	8 x 15 x 3.5	*	.146	.116	.102
607187	UPW0J102MPD 	1000	6.3V	10 x 12.5 x 5	.44	.324	.241	.181
609422	UVZ1A102MPD 	1000	10V	10 x 12.5 x 5	.43	.326	.249	.179
607363	UPW1A102MPD6 	1000	10V	8 x 20 x 3.5	.49	.365	.266	.20
606512	UHE1A102MPD 	1000	10V	8 x 20 x 3.5	.35	.275	.22	.165
606521	UHE1A102MPD6 	1000	10V	10 x 16 x 5	.35	.275	.216	.162
609465	UVZ1C102MPD 	1000	16V	10 x 16 x 5	.51	.324	.259	.194
607515	UPW1C102MPD 	1000	16V	10 x 20 x 5	.62	.46	.349	.262
606601	UHE1C102MPD 	1000	16V	10 x 20 x 5	.44	.356	.274	.206
330722	RB1000/16 	1000	16V	10 x 20 x 5	.23	.216	.19	.171
158298	R1000B25 	1000	25V	10 x 17 x 5	.35	.29	.25	.19
607718	UPW1E102MHD 	1000	25V	12.5 x 20 x 5	.81	.60	.44	.348
608171	UPW1V102MHD 	1000	35V	12.5 x 25 x 5	.94	.70	.528	.454
607021	UHE1V102MHD 	1000	35V	12.5 x 25 x 5	.71	.58	.44	.33
158377	R1000B35 	1000	35V	13 x 12 x 5	.49	.45	.40	.35
609553	UVZ1H102MHD 	1000	50V	12.5 x 25 x 5	.79	.58	.432	.316
607865	UPW1H102MHD 	1000	50V	16 x 25 x 7.5	1.20	.91	.70	.52
606782	UHE1H102MHD 	1000	50V	12.5 x 40 x 5	.89	.72	.55	.412
608041	UPW1J102MHD 	1000	63V	16 x 31.5 x 7.5	1.55	1.20	.93	.70
606889	UHE1J102MHD 	1000	63V	12.5 x 40 x 5	1.26	1.00	.80	.60
606897	UHE1J102MHD6 	1000	63V	18 x 31.5 x 7.5	1.23	.97	.73	.63
609756	UVZ2A102MHD 	1000	100V	18 x 40 x 7.5	1.95	1.49	1.16	.87
606459	UHE0J122MPD 	1200	6.3V	8 x 20 x 3.5	.31	.25	.201	.151
607216	UPW0J122MPD 	1200	6.3V	10 x 15 x 3.5	.45	.332	.241	.181
607224	UPW0J122MPD6 	1200	6.3V	10 x 16 x 5	.48	.365	.274	.206
607380	UPW1A122MPD	1200	10V	10 x 20 x 5	.54	.413	.307	.23
606547	UHE1A122MPD	1200	10V	10 x 20 x 5	.39	.316	.232	.174
606627	UHE1C122MPD	1200	16V	10 x 25 x 5	.40	.324	.249	.213
606694	UHE1E122MHD	1200	25V	18 x 15 x 7.5	.66	.53	.407	.305
608180	UPW1V122MHD	1200	35V	12.5 x 31.5 x 5	1.19	.91	.70	.52
607030	UHE1V122MHD	1200	35V	12.5 x 31.5 x 5	.89	.74	.57	.428
606918	UHE1J122MHD	1200	63V	16 x 40 x 7.5	1.43	1.16	.89	.67
607232	UPW0J152MPD	1500	6.3V	10 x 20 x 5	.48	.365	.281	.23
607398	UPW1A152MPD6	1500	10V	10 x 25 x 5	.55	.419	.304	.235
607531	UPW1C152MHD	1500	16V	12.5 x 20 x 5	.86	.65	.485	.364
606635	UHE1C152MPD	1500	16V	10 x 31.5 x 5	.59	.47	.376	.282
607734	UPW1E152MHD	1500	25V	16 x 25 x 7.5	.96	.73	.56	.42
607742	UPW1E152MHD6	1500	25V	12.5 x 25 x 5	.96	.73	.56	.42
607873	UPW1H152MHD	1500	50V	16 x 31.5 x 7.5	1.55	1.20	.93	.69
606467	UHE0J182MHD	1800	6.3V	12.5 x 15 x 5	.36	.292	.224	.168
607751	UPW1E182MHD	1800	25V	12.5 x 31.5 x 5	1.17	.88	.66	.56
607056	UHE1V182MHD	1800	35V	12.5 x 40 x 5	.94	.75	.58	.431
607267	UPW0J222MPD6	2200	6.3V	10 x 25 x 5	.63	.478	.357	.268
609342	UVZ0J222MPD	2200	6.3V	10 x 20 x 5	.52	.365	.257	.193
606475	UHE0J222MPD	2200	6.3V	10 x 25 x 5	.44	.356	.285	.214
607427	UPW1A222MHD	2200	10V	12.5 x 20 x 5	.81	.62	.468	.351
606563	UHE1A222MPD	2200	10V	10 x 31.5 x 5	.57	.454	.349	.298
609490	UVZ1C222MHD	2200	16V	12.5 x 20 x 5	.82	.62	.476	.34

Aluminum Radial-Lead Electrolytic Capacitors ( $\pm 20\%$ ) (Continued)

Quantity SAVE



Leakage Current (20°C)	After 1 min.	0.03CV or 4 $\mu$ A, whichever is greater
	After 2 min.	0.01CV or 3 $\mu$ A, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

## 105°C – HT Type General Purpose (Continued)

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
606643	UHE1C222MHD	2200	16V	12.5 x 25 x 5	\$ .71	\$ .58	\$ .464	\$ .348
609705	UVZ1V222MHD	2200	35V	16 x 25 x 7.5	1.38	1.05	.81	.57
608227	UPW1V222MHD	2200	35V	16 x 30.5 x 7.5	1.38	1.06	.81	.61
608235	UPW1V222MHD	2200	35V	18 x 26 x 9	1.42	1.10	.85	.64
607064	UHE1V222MHD	2200	35V	16 x 31.5 x 7.5	1.27	1.01	.80	.60
607911	UPW1H222MHD	2200	50V	18 x 35.5 x 7.5	1.95	1.52	1.17	.88
606838	UHE1H222MHD	2200	50V	18 x 35.5 x 7.5	1.49	1.14	.87	.83
158431	R2200B50	2200	50V	16 x 35 x 7.5	.99	.89	.71	.53
609676	UVZ1J222MHD	2200	63V	18 x 35.5 x 7.5	1.69	1.31	1.01	.75
607435	UPW1A272MHD	2700	10V	12.5 x 25 x 5	.84	.64	.476	.357
607558	UPW1C272MHD	2700	16V	16 x 31.5 x 7.5	1.25	.96	.75	.56
607769	UPW1E272MHD	2700	25V	16 x 25 x 7.5	1.42	1.10	.80	.60
609377	UVZ0J332MPD	3300	6.3V	13 x 20 x 5	.57	.429	.324	.238
607283	UPW0J332MHD	3300	6.3V	13 x 20 x 5	.84	.64	.476	.357
606491	UHE0J332MHD	3300	6.3V	12.5 x 20 x 5	.58	.47	.376	.282
609449	UVZ1A332MHD	3300	10V	12.5 x 20 x 5	.84	.62	.476	.34
607443	UPW1A332MHD	3300	10V	12.5 x 31.5 x 5	1.71	.53	.398	.298
607574	UPW1C332MHD	3300	16V	16 x 25 x 7.5	1.29	.99	.76	.57
607582	UPW1C332MHD	3300	16V	12.5 x 35.5 x 5	1.29	.99	.76	.57
606660	UHE1C332MHD	3300	16V	12.5 x 35.5 x 5	.94	.75	.56	.42
607785	UPW1E332MHD	3300	25V	18 x 25 x 7.5	1.48	1.15	.88	.66
606715	UHE1E332MHD	3300	25V	16 x 31.5 x 7.5	1.27	1.01	.78	.58
608278	UPW1V332MHD	3300	35V	18 x 35.5 x 7.5	1.79	1.40	1.08	.81
609588	UVZ1H332MHD	3300	50V	18 x 35.5 x 7.5	2.15	1.66	1.30	.97
607291	UPW0J392MHD	3900	6.3V	12.5 x 25 x 5	.93	.71	.55	.415
607451	UPW1A392MHD	3900	10V	12.5 x 35.5 x 5	.96	.74	.55	.413
607591	UPW1C392MHD	3900	16V	16 x 25 x 7.5	1.47	1.14	.88	.66
609393	UVZ0J472MHD	4700	6.3V	12.5 x 20 x 5	.83	.66	.502	.357
607304	UPW0J472MHD	4700	6.3V	16 x 25 x 7.5	.96	.72	.54	.405

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
607312	UPW0J472MHD	4700	6.3V	12.5 x 31.5 x 5	\$ .96	\$ .74	\$ .55	\$ .413
607478	UPW1A472MHD	4700	10V	16 x 25 x 7.5	1.17	.90	.68	.51
606580	UHE1A472MHD	4700	10V	12.5 x 35.5 x 5	.89	.72	.55	.413
609511	UVZ1C472MHD	4700	16V	16 x 25 x 7.5	1.49	1.18	.85	.63
607620	UPW1C472MHD	4700	16V	16 x 31.5 x 7.5	1.47	1.14	.88	.66
607638	UPW1C472MHD	4700	16V	18 x 25 x 7.5	1.47	1.14	.88	.66
606758	UHE1E472MHD	4700	25V	16 x 40 x 7.5	1.55	1.24	.95	.71
607814	UPW1E472MHD	4700	25V	18 x 35.5 x 7.5	1.46	1.12	.85	.75
607321	UPW0J562MHD	5600	6.3V	12.5 x 35.5 x 5	1.20	.91	.70	.52
607646	UPW1C562MHD	5600	16V	16 x 35.5 x 7.5	1.55	1.20	.93	.70
609406	UVZ0J682MHD	6800	6.3V	12.5 x 25 x 5	1.15	.88	.68	.485
607339	UPW0J682MHD	6800	6.3V	16 x 25 x 7.5	1.22	.94	.72	.54
607347	UPW0J682MHD	6800	6.3V	18 x 20 x 7.5	1.22	.94	.72	.54
609457	UVZ1A682MHD	6800	10V	16 x 25 x 7.5	1.55	1.18	.91	.65
607486	UPW1A682MHD	6800	10V	16 x 31.5 x 7.5	1.55	1.20	.93	.69
607494	UPW1A682MHD	6800	10V	18 x 25 x 7.5	1.55	1.20	.93	.70
609529	UVZ1C682MHD	6800	16V	16 x 35.5 x 7.5	1.79	1.39	1.08	.80
607697	UPW1C822MHD	8200	16V	18 x 35.5 x 7.5	1.89	1.49	1.15	.86
609318	UVZ0J103MHD	10,000	6.3V	16 x 25 x 7.5	1.45	1.12	.86	.64
606441	UHE0J103MHD	10,000	6.3V	18 x 15 x 7.5	1.33	1.06	.81	.61
607195	UPW0J103MHD	10,000	6.3V	16 x 31.5 x 7.5	1.55	1.20	.93	.70
607208	UPW0J103MHD	10,000	6.3V	18 x 25 x 7.5	1.55	1.20	.93	.70
607371	UPW1A103MHD	10,000	10V	18 x 35.5 x 7.5	1.89	1.49	1.15	.86
606539	UHE1A103MHD	10,000	10V	16 x 40 x 7.5	1.49	1.15	.89	.67
609473	UVZ1C103MHD	10,000	16V	18 x 35.5 x 7.5	1.95	1.49	1.15	.86
609326	UVZ0J153MHD	15,000	6.3V	16 x 35.5 x 7.5	1.79	1.40	1.08	.76
607241	UPW1C153MHD	15,000	6.3V	18 x 35.5 x 7.5	1.89	1.49	1.15	.86
609431	UPW1A153MHD	15,000	10V	18 x 35.5 x 7.5	1.95	1.49	1.15	.86
609351	UVZ0J223MHD	22,000	6.3V	18 x 40 x 7.5	2.15	1.64	1.27	.95

## 85°C – General Purpose

Quantity SAVE

Lower \$\$\$

## Other Manufacturers — Great Deals\*

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
29833	R1/50	1	50V	5 x 11 x 2.0	*	\$ .063	\$ .053	\$ .042
93729	R2.2/50	2.2	50V	5 x 11 x 2.0	*	.034	.03	.023
31000	R4.7/50	4.7	50V	5 x 11 x 2.0	*	.038	.033	.026
29891	R10/50	10	50V	5 x 11 x 2.0	*	.06	.05	.04
93737	R22/50	22	50V	5 x 11 x 2.0	*	.032	.029	.026
93753	R47/25	47	25V	5 x 11 x 2.0	*	.071	.059	.047
31114	R47/50	47	50V	6 x 11 x 2.5	*	.06	.048	.036
207811	R100/10	100	10V	5 x 11 x 2.0	*	.06	.051	.038
93761	R100/25	100	25V	6 x 11 x 2.5	*	.07	.05	.035
29962	R100/50	100	50V	8 x 11 x 3.5	*	.07	.06	.05
30496	R220/25	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93778	R220/50	220	50V	10 x 12 x 5.0	*	.15	.12	.09
93796	R330/25	330	25V	10 x 12 x 5.0	*	.118	.084	.061

\* Capacitor dimensions and styles may vary.

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
93809	R470/16	470	16V	8 x 11 x 3.5	*	\$ .099	\$ .095	\$ .071
31181	R470/25	470	25V	10 x 12 x 5.0	*	.132	.106	.08
93817	R470/35	470	35V	10 x 16 x 5.0	.19	.162	.141	.118
93825	R470/50	470	50V	12 x 20 x 5.0	.29	.27	.19	.13
30015	R1000/16	1000	16V	10 x 16 x 5.0	.24	.192	.143	.107
93833	R1000/25	1000	25V	10 x 20 x 5.0	.41	.32	.29	.16
93841	R1000/50	1000	50V	12 x 25 x 5.0	.52	.46	.41	.307
133145	R2200/16	2200	16V	12 x 20 x 5.0	.38	.34	.27	.206
30533	R2200/25	2200	25V	12 x 25 x 5.0	.66	.50	.39	.35
30891	R3300/25	3300	25V	16 x 25 x 7.5	.71	.65	.49	.43
93850	R4700/25	4700	25V	16 x 31 x 7.5	.99	.89	.80	.66
163301	R4700/50	4700	50V	22 x 42 x 10.0	1.99	1.79	1.50	1.31
31510	R6800/16	6800	16V	16 x 35 x 7.5	.97	.91	.77	.59

\* Capacitor dimensions and styles may vary.

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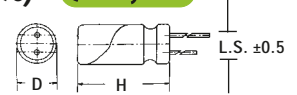
## Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)

Quantity SAVE

85°C – General Purpose



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330941	RN1/50R	1	50V	5 x 11 x 2.0	*	\$ .159	\$ .085	\$ .075
331054	RN1/100R	1	100V	5 x 11 x 2.0	.25	.169	.135	.101
330958	RN2.2/50⊕	2.2	50V	5 x 11 x 2.0	*	.159	.085	.064
331029	RN2.2/63⊕	2.2	63V	5 x 11 x 2.0	.27	.243	.194	.145
331061	RN2.2/100⊕	2.2	100V	5 x 11 x 2.0	*	.169	.071	.053
330966	RN3.3/50⊕	3.3	50V	5 x 11 x 2.0	*	.171	.094	.071
331070	RN3.3/100⊕	3.3	100V	5 x 11 x 2.0	.21	.189	.095	.071
330907	RN4.7/25⊕	4.7	25V	5 x 11 x 2.0	.28	.243	.194	.145
331088	RN4.7/100⊕	4.7	100V	6 x 11 x 2.5	.21	.188	.095	.071
330915	RN10/25⊕	10	25V	5 x 11 x 2.0	.28	.243	.194	.146

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330983	RN10/50R	10	50V	8 x 11 x 3.5	\$ .22	\$ .198	\$ .178	\$ .16
331096	RN10/100⊕	10	100V	8 x 11 x 3.5	.22	.198	.114	.085
330878	RN22/16⊕	22	16V	5 x 11 x 2.0	.26	.234	.187	.14
330923	RN22/25⊕	22	25V	5 x 11 x 2.0	.32	.288	.23	.173
330991	RN22/50⊕	22	50V	6 x 11 x 2.5	.33	.31	.144	.108
331037	RN22/63⊕	22	63V	8 x 11 x 3.5	.45	.405	.324	.243
331109	RN22/100⊕	22	100V	10 x 15 x 5.0	.33	.297	.171	.128
331003	RN47/50R	47	50V	8 x 11 x 3.5	.46	.414	.314	.285
331118	RN47/100⊕	47	100V	10 x 20 x 5.0	.51	.455	.345	.259
330894	RN100/16⊕	100	16V	8 x 11 x 3.5	.45	.405	.365	.328
331012	RN100/50R	100	50V	10 x 17 x 5.0	.69	.63	.467	.359

## 85°C – Non-Polarized High-Frequency (Horizontal Deflection)

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
331125	RN1/25S⊕	1	25V	8 x 11 x 3.5	\$ .37	\$ .348	\$ .186	\$ .14
331205	RN1/50S⊕	1	50V	8 x 11 x 3.5	.37	.348	.186	.14
331133	RN2.2/25S⊕	2.2	25V	8 x 11 x 3.5	.37	.348	.186	.14
331213	RN2.2/50S⊕	2.2	50V	8 x 11 x 3.5	.37	.348	.186	.14
331141	RN3.3/25S⊕	3.3	25V	8 x 11 x 3.5	.37	.348	.186	.14
331221	RN3.3/50S⊕	3.3	50V	8 x 11 x 3.5	.37	.348	.186	.14
331151	RN4.7/25SR	4.7	25V	8 x 11 x 3.5	.37	.348	.186	.14
331230	RN4.7/50S⊕	4.7	50V	8 x 11 x 3.5	.37	.348	.186	.14

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
331168	RN5.6/25S⊕	5.6	25V	8 x 11 x 3.5	\$ .37	\$ .348	\$ .186	\$ .14
331248	RN5.6/50S⊕	5.6	50V	8 x 14 x 3.5	.45	.423	.226	.17
331176	RN6.8/25S⊕	6.8	25V	8 x 11 x 3.5	.37	.348	.186	.14
331256	RN6.8/50S⊕	6.8	50V	8 x 14 x 3.5	.45	.423	.249	.224
331184	RN8.2/25S⊕	8.2	25V	8 x 14 x 3.5	.45	.423	.226	.17
331264	RN8.2/50S⊕	8.2	50V	10 x 15 x 5.0	.58	.548	.293	.22
331192	RN10/25S⊕	10	25V	8 x 14 x 3.5	.45	.423	.226	.17
331272	RN10/50S⊕	10	50V	10 x 15 x 5.0	.58	.548	.293	.22

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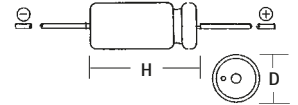


## Aluminum Axial-Lead Electrolytic Capacitors

General purpose 85°C maximum

Quantity SAVE

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater



† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
10868	A1/50R	1	50V	5 x 13	*	\$ .15	\$ .104	\$ .078
11078	A4.7/50R	4.7	50V	6 x 13	*	.11	.097	.073
331301	AB4.7/63⊕	4.7	63V	6 x 12	.23	.197	.143	.105
199260	A10J/25R	10	25V	5 x 12	.20	.174	.15	.139
93578	A10/35⊕	10	35V	6 x 13	*	.133	.107	.08
10883	A10/50⊕	10	50V	6 x 12	*	.167	.14	.105
331311	AB10/63R	10	63V	6 x 12	*	.15	.128	.096
331425	AB10/450R	10	450V	13 x 25	1.08	.99	.89	.67
199268	A22J/25R	22	25V	6 x 12	*	.205	.147	.109
10999	A22/50R	22	50V	6 x 12	*	.19	.14	.11
331328	AB22/63⊕	22	63V	8 x 12	.22	.198	.158	.119
331433	AB22/450R	22	450V	16 x 26	1.99	1.66	1.51	1.37
199180	A47J/16R	47	16V	6.3 x 12	*	.152	.13	.12
135321	A47/25R	47	25V	8 x 16	*	.15	.14	.096
11107	A47/50R	47	50V	8 x 16	*	.19	.14	.11
331336	AB47/63⊕	47	63V	8 x 16	.23	.206	.174	.13
331361	AB47/100⊕	47	100V	10 x 17	.34	.273	.218	.163
331395	AB47/160⊕	47	160V	13 x 21	.75	.57	.368	.331
331442	AB47/450R	47	450V	16 x 30	3.25	2.74	2.49	2.26
199188	A100J/16R	100	16V	6.3 x 16	.39	.297	.266	.239
199284	A100J/25R	100	25V	8 x 16	.25	.20	.18	.15
10913	A100/50R	100	50V	8 x 20	.26	.245	.221	.199
331380	AB100/100R	100	100V	10 x 20	.85	.73	.57	.47
331408	AB100/160⊕	100	160V	16 x 26	2.09	1.86	1.68	1.51
331416	AB100/250⊕	100	250V	16 x 30	2.45	2.09	1.93	1.80
331299	AB150/50⊕	150	50V	10 x 17	.96	.86	.69	.518
199195	A220J16⊕	220	16V	8 x 16	.23	.207	.166	.125

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
199292	A220J/25R	220	25V	8 x 16	\$ .29	\$ .22	\$ .188	\$ .126
11019	A220/50R	220	50V	10 x 17	.35	.29	.25	.192
331352	AB220/63⊕	220	63V	10 x 20	.55	.461	.369	.277
199372	A330J/35R	330	35V	10 x 17	.44	.367	.333	.25
199217	A470J/16R	470	16V	8 x 16	.35	.286	.257	.193
199312	A470J/25⊕	470	25V	10 x 17	.40	.36	.288	.216
199381	A470J/35R	470	35V	10 x 21	.50	.404	.371	.278
11123	A470/50R	470	50V	13 x 21	.59	.49	.42	.34
331281	AB1000/10⊕	1000	10V	10 x 17	.51	.414	.331	.248
93633	A1000/16R	1000	16V	10 x 20	.51	.46	.42	.347
10956	A1000/25R	1000	25V	10 x 20	.66	.54	.49	.38
93651	A1000/35R	1000	35V	13 x 25	.94	.83	.66	.545
147258	A1000/50R	1000	50V	16 x 25	.88	.77	.66	.545
199321	A2200J/25⊕	2200	25V	16 x 28	1.09	.90	.78	.59
93658	A2200/35R	2200	35V	16 x 30	1.25	1.10	.99	.85
199478	A2200J/50⊕	2200	50V	18 x 42	2.15	1.93	1.54	1.15
93666	A3300/25⊕	3300	25V	16 x 32	1.10	.99	.88	.77
199398	A3300J/35⊕	3300	35V	18 x 37	3.39	2.93	2.29	1.72
199487	A3300J/50R	3300	50V	22 x 43	2.19	1.96	1.77	1.59
199232	A4700J/16⊕	4700	16V	16 x 30	1.45	1.30	1.04	.78
93675	A4700/25R	4700	25V	16 x 30	1.69	1.49	1.29	.99
199401	A4700J/35⊕	4700	35V	18 x 40	2.79	2.51	2.01	1.51
158811	A4700A50R	4700	50V	25 x 43	2.79	2.29	2.09	1.79
199241	A6800J/16⊕	6800	16V	16 x 33	.90	.81	.73	.66
199339	A6800J/25⊕	6800	25V	18 x 40	2.82	2.55	2.03	1.53
93682	A10000/16⊕	10000	16V	16 x 33	2.99	2.74	2.20	1.59

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend

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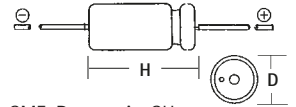
## Aluminum Axial-Lead Electrolytic Capacitors (Continued)

General purpose 85°C maximum

Quantity SAVE



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater



† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

## Other Manufacturers — Great Deals\*

* Prepackaged: please order in increments of 10																	
	Cross	Value		Size (mm)	Pricing					Cross	Value		Size (mm)	Pricing			
Part No.	Ref. No. †	(µF)	Voltage	DxH	1	10	100	500	Part No.	Ref. No. †	(µF)	Voltage	DxH	1	10	100	500
10866	A1/50	1	50V	5 x 13	*	\$ .111	\$ .094	\$ .07	11121	A470/50	470	50V	13 x 31	\$1.19	\$1.07	\$ .86	\$ .64
11076	A4.7/50	4.7	50V	6 x 13	*	.162	.13	.088	93631	A1000/16	1000	16V	13 x 27	.46	.414	.33	.248
93577	A10/35	10	35V	6 x 13	*	.105	.10	.09	10954	A1000/25	1000	25V	13 x 31	.52	.456	.365	.306
10882	A10/50	10	50V	6 x 12	*	.15	.12	.08	93649	A1000/35	1000	35V	13 x 26	.49	.44	.35	.263
10997	A22/50	22	50V	6 x 12	.20	.182	.146	.11	147256	A1000/50	1000	50V	16 x 31	.67	.60	.48	.36
135319	A47/25	47	25V	8 x 16	.25	.135	.115	.086	11033	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
11105	A47/50 ☺	47	50V	8 x 16	*	.13	.104	.078	93665	A3300/25	3300	25V	16 x 32	1.43	1.29	1.14	1.00
93551	A100/35	100	35V	8 x 16	.27	.22	.19	.15	93673	A4700/25	4700	25V	22 x 39	1.86	1.61	1.40	1.07
10911	A100/50	100	50V	8 x 20	.33	.287	.23	.172	93681	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

\* Capacitor dimensions and styles may vary

JAMECO ValuePro



## Aluminum Axial-Lead Non-Polarized Electrolytic Capacitors

85°C – General purpose



Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing				Pricing			
					1	10	100	500	1	10	100	500
331521	AN1/50	1	50V	6 x 16	\$.35	\$.342	\$.266	\$.209	\$.86	\$.77	\$.62	\$.465
331635	AN1/100	1	100V	6 x 16	.37	.32	.264	.198	.69	.62	.50	.375
331540	AN2.2/50	2.2	50V	6 x 16	.40	.38	.295	.228	.87	.78	.62	.465
331547	AN3.3/50	3.3	50V	6 x 16	.35	.315	.248	.186	.51	.459	.367	.275
331555	AN4.7/50	4.7	50V	6 x 16	.46	.41	.37	.34	.85	.77	.62	.47
331643	AN4.7/100	4.7	100V	6 x 16	.58	.50	.42	.315	1.39	1.25	1.00	.75
331483	AN10/25	10	25V	6 x 16	.39	.35	.28	.21	.53	.477	.382	.287
331563	AN10/50	10	50V	6 x 16	.57	.513	.41	.307	.57	.513	.41	.307
331651	AN10/100	10	100V	8 x 16	.62	.535	.45	.338	.91	.87	.66	.495
331459	AN22/16	22	16V	6 x 16	.39	.351	.281	.211	2.35	2.12	1.91	1.72
331491	AN22/25	22	25V	6 x 16	.43	.387	.31	.232	.75	.68	.54	.41
331571	AN22/50	22	50V	6 x 16	.63	.547	.464	.348	1.15	1.00	.84	.63
331627	AN22/63	22	63V	8 x 16	.63	.55	.46	.345				

JAMECO ValuePro

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C • Can-Top safety vent

† CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF;

Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)



Snap-Ins!




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Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100						1	10	100
331838	SNA68/450	68	450V	22 x 30	\$2.55	\$2.12	\$1.59	331977	SNB680/200	680	200V	25 x 40	\$3.05	\$2.59	\$2.28
331926	SNB100/200	100	200V	30 x 40	1.95	1.50	.81	331820	SNA680/250	680	250V	25 x 48	3.79	2.86	1.77
331846	SNA120/450	120	450V	22 x 40	3.15	2.65	1.67	332056	SNB680/250	680	250V	25 x 48	3.89	2.89	2.08
331934	SNB220/200	220	200V	22 x 27	2.19	1.81	1.36	331985	SNB820/200	820	200V	25 x 48	3.35	3.06	2.81
331791	SNA220/250	220	250V	22 x 36	2.35	1.65	1.02	332064	SNB820/250	820	250V	30 x 48	4.45	4.05	3.83
332013	SNB220/250	220	250V	22 x 36	1.99	1.89	1.25	331993	SNB1000/200	1,000	200V	30 x 40	4.39	3.73	2.31
331775	SNA330/200	330	200V	25 x 35	2.55	1.49	1.29	331890	SNB3300/50	3,300	50V	25 x 23	2.59	2.29	2.09
331942	SNB330/200	330	200V	25 x 30	1.75	1.66	1.37	331740	SNA3300/80	3,300	80V	22 x 48	2.35	2.23	1.67
331803	SNA330/250	330	250V	22 x 36	1.95	1.74	1.41	331898	SNB4700/50	4,700	50V	25 x 30	2.19	1.99	1.79
332021	SNB330/250	330	250V	22 x 36	2.25	1.91	1.44	115422	SN4700/50	4,700	50V	30 x 41	2.19	2.00	1.50
203246	SN330/400	330	400V	30 x 46	4.25	3.61	2.70	331723	SNA4700/63	4,700	63V	25 x 40	3.29	2.86	2.54
331951	SNB470/200	470	200V	22 x 41	2.05	1.91	1.72	331900	SNB6800/50	6,800	50V	25 x 40	2.69	2.40	1.82
331811	SNA470/250	470	250V	25 x 40	3.05	2.30	1.43	331759	SNA8200/80	8,200	80V	35 x 53	6.35	4.76	4.18
332030	SNB470/250	470	250V	25 x 40	2.35	1.96	1.47	331707	SNA10000/16	10,000	16V	22 x 30	3.29	1.90	1.34
203263	SN470/400/5	470	450V	35 x 51	8.25	7.60	5.69	331901	SNB10000/50	10,000	50V	25 x 41	2.69	2.40	1.99
331782	SNA560/200	560	200V	25 x 36	2.99	2.12	1.22	157737	SN10000/50	10,000	50V	35 x 40	4.95	4.10	3.99
331969	SNB560/200	560	200V	25 x 36	3.35	2.01	1.40	331716	SNA15000/25	15,000	25V	25 x 40	2.65	2.35	1.78
332048	SNA560/250	560	250V	30 x 40	2.95	2.80	2.10								

## Other Manufacturers — Great Deals\*

203254	SN470/400/4	470	400V	35 x 41	\$6.35	\$5.40	\$4.05	155889	SN560/200	560	200V	23 x 41	\$2.49	\$2.12	\$1.59
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\* Capacitor dimensions may vary

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

**Panasonic**

**NEW**

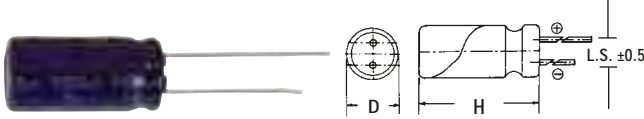
## Aluminum Electrolytic Capacitors

**NEW**

For more Panasonic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

### EEU-FC Series Radial Lead Aluminum Electrolytic Capacitors

- Low impedance
- Long life: 1,000 - 5,000 hours @ 105°C
- Capacitance tolerance: ±20%
- Operating temperature range: -55°C to 105°C



\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
861038	EEU-FC1A681	10	680µF	10 x 12.5 x 5	*	\$.272	\$.201
861097	EEU-FC1C560H	16	56µF	5 x 11 x 2	*	.084	.076
920659	EEU-FC1C471L	16	470µF	8 x 15 x 3.5	*	.272	.201
861062	EEU-FC1C392	16	3900µF	16 x 25 x 7.5	1.38	1.07	.80
920683	EEU-FC1E331L	25	330µF	8 x 15 x 3.5	*	.272	.201
861214	EEU-FC1V390	35	39µF	5 x 15 x 2	*	.171	.139
861185	EEU-FC1V331B	35	330µF	10 x 16 x 5	*	Call	Call
861249	EEU-FC1V681S	35	680µF	16 x 15 x 7.5	.87	.71	.53
861126	EEU-FC1H561S	50	560µF	18 x 15 x 7.5	1.26	.96	.72
861151	EEU-FC1J220	63	22µF	6.3 x 11.2 x 2.5	*	.148	.107
861273	EEU-FC2A330L	100	33µF	8 x 15 x 3.5	.35	.299	.222

\* Please call or visit our website for minimum order quantity and pricing.

### ECA-M Series Radial Lead Aluminum Electrolytic Capacitors

- Miniaturized size version for general purpose use
- Life: 2,000 hours @ 85°C

Operating temperature range	-40°C to 85°C	-25°C to 85°C
Rated working voltage range	6.3VDC to 100VDC	160VDC to 450VDC

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
856888	ECA-1CM101	16	100µF	5 x 11 x 2	*	\$.063	\$.057
918962	ECA-1CM471	16	470µF	8 x 11.5 x 3.5	*	.144	.104
919050	ECA-1EM471	25	470µF	10 x 12.5 x 5	*	.223	.161
919025	ECA-1EM102	25	1000µF	10 x 20 x 5	.40	.34	.252
856941	ECA-1EM472	25	4700µF	16 x 31.5 x 7.5	1.43	.98	.74
857004	ECA-1VM472	35	4700µF	18 x 35.5 x 7.5	2.10	1.44	1.09
856976	ECA-1HM102	50	1000µF	12.5 x 25 x 5	.74	.60	.45

**AVX**

**NEW**

## TAP Series Epoxy Dipped Radial Tantalum Capacitors

**NEW**

For more AVX Capacitors visit [www.Jameco.com](http://www.Jameco.com)

TAP Series is a professional grade device manufactured with a flame retardant coating and featuring low "leakage current and impedance, very small physical size, and exceptional temperature stability". Designed and conditioned to operate up to 125°C. Voltages listed are at 85°C, derate voltage 33% at 125°C.

### TAP Series (Bulk packaging)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	5	100
852511	TAP224K035SCS	A	22µF	35	10%	*	\$.218	\$.199
852351	TAP105K020SCS	A	1µF	20	10%	*	.384	.253
768466	TAP105K050CCS	B	1µF	50	10%	*	.39	.351
768474	TAP105M050SCS	A	1µF	50	20%	*	.367	.33
768491	TAP155K035CCS	B	1.5µF	35	10%	*	.359	.323
768511	TAP225K035SCS-LF	A	2.2µF	35	10%	*	.308	.277
768520	TAP225M035CCS	B	2.2µF	35	20%	*	.402	.362
852570	TAP475M035SCS	A	4.7µF	35	20%	.55	.497	.447
768571	TAP685K035CCS	B	6.8µF	35	10%	.76	.68	.61
852393	TAP106K016SCS	A	10µF	16	10%	.47	.429	.39
768482	TAP106M035SCS	A	10µF	35	20%	1.10	.99	.89
852473	TAP106K035CCS	B	10µF	35	10%	.90	.85	.80
852490	TAP106K050SCS	A	10µF	50	10%	3.69	3.15	2.99
768503	TAP156K035CCS	B	15µF	35	10%	2.35	2.11	1.90

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

### NHG Series Radial Lead Aluminum Electrolytic Capacitors

- Compact size
- Life: 1,000 to 2,000 hours @ 105°C

Operating temperature range	-55°C to 105°C	-25°C to 105°C
Rated working voltage range	6.3VDC to 100VDC	160VDC to 450VDC

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
856845	ECA-1AHG102	10	1000µF	10 x 12.5 x 5	*	\$.272	\$.201
918997	ECA-1EHG471	25	470µF	10 x 12.5 x 5	*	.285	.211
856917	ECA-1EHG332B	25	3300µF	16 x 25 x 7.5	.98	.88	.79

### ECE-KS Series Radial-Lead Aluminum Electrolytic Capacitors

- Low profile 5mm height for 3mm to 8mm diameter
- Shelf life: 1,000 hours
- Capacitance tolerance: ±20%
- Operating temperature range: -40°C to 85°C

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
857039	ECE-A1CKS101	16	100µF	8 x 5 x 2.5	*	\$.124	\$.112

### ECO-TS Series Large-Can Aluminum Electrolytic Capacitors

- Temperature range: -40°C to 85°C
- Tolerance: ±20%
- Temperature range: -40°C to 105°C
- Tolerance: ±20%

### TSUP Miniaturized Size General Purpose, 85°C, 3,000 hour life

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H	Pricing		
					1	5	100
859982	ECO-S1VP103EA	35	10,000µF	35 x 25	\$5.02	\$4.28	\$3.01
860019	ECO-S2DP102CA	200	1,000µF	25 x 50	4.39	3.75	2.70
860078	ECO-S2GP221BA	400	220µF	22 x 50	4.93	4.20	2.94
860107	ECO-S2GP471EA	400	470µF	35 x 45	6.89	5.99	5.60

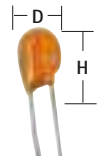
### TSHA Miniaturized Size, Long Life & High Ripple Current, 105°C, 3,000 hour life

859958	ECO-S1HP472BA	50	4700µF	22 x 45	\$3.68	\$3.13	\$2.19
859915	ECO-S1HA682EA	50	6800µF	35 x 30	5.75	4.77	3.34
860043	ECO-S2GA221EA	400	220µF	35 x 30	5.49	4.71	3.39

### TSHB Compact Size, Long Life & High Ripple Current, 105°C, 3,000 hour life

860140	ECO-S2WB471EA	450	470µF	35 x 50	\$12.29	\$10.84	\$10.30
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Case	H	D
A	8.5mm (0.330")	4.5mm (0.180")
B	9.0mm (0.350")	4.5mm (0.180")
C	10.0mm (0.390")	5.0mm (0.200")



### TAP Series (Bulk packaging) (Continued)

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	5	100
852553	TAP226K035CCS	B	22µF	35	10%	\$2.03	\$1.94	\$1.71
768538	TAP226K035HSB	C	22µF	35	10%	2.39	2.14	1.93
768546	TAP476K025SCS	A	47µF	25	10%	4.01	3.82	3.29
768554	TAP476M020HSB	C	47µF	20	20%	2.35	2.12	1.91
768562	TAP476M035CCS	B	47µF	35	20%	6.05	5.46	4.91

### TAP Series (Tape and Reel)

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	5	100
852377	TAP105K035SRW	A	1µF	35	10%	*	Call	Call
852414	TAP106K016SRW	A	10µF	16	10%	*	Call	Call
852457	TAP106K025SRW	A	10µF	25	10%	*	Call	Call
852431	TAP106K025CRW	B	10µF	25	10%	*	Call	Call
852537	TAP226K016SRW	A	22µF	16	10%	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing.

# Dipped Tantalum Capacitors

More Tantalum Capacitors at [www.Jameco.com/Prod/Tantalums](http://www.Jameco.com/Prod/Tantalums)

Color Code Legend			
New	Sale	Lower\$	QtySave

JAMECO ValuePro

Quantity SAVE

## Dipped Tantalum Capacitors (±10%)

Lower \$\$\$



- Operating temp. range: -55°C to +85°C (+125°C with derating)
  - Rated voltage DC: ≤ +85°C
  - Low leakage current
  - Exceptional temperature stability
  - Moisture-resistant
  - Flame retardant coating
  - Designed for entertainment and commercial equipment
- † Cross References: Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

Passives

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
154862	TM1/25	.10	25	4.5 x 7 x 2.5	.32	.29	.25	.22
33488	TM.1	.10	35	4.5 x 7 x 2.5	.32	.285	.217	.171
332111	TDR0.1/50	.10	50	4.5 x 7 x 2.5	.33	.296	.213	.198
33508	TM.22	.22	35	4.5 x 7 x 2.5	.31	.285	.217	.163
545908	TAP334K035SCS	.33	35	4.3 x 7 x 2.5	.27	.243	.194	.146
33525	TM.33	.33	35	4.5 x 7 x 2.5	.25	.225	.19	.143
545916	TAP334K050SCS	.33	50	4.3 x 7 x 2.5	.30	.272	.218	.164
332128	TDR0.33/50	.33	50	4.5 x 7 x 2.5	.39	.351	.227	.17
546038	TAP474K035SCS	.47	35	4.3 x 7 x 2.5	.27	.229	.183	.137
33533	TM.47	.47	35	4.5 x 7 x 2.5	.22	.20	.15	.14
546046	TAP474K050SCS	.47	50	4.3 x 7 x 2.5	.34	.286	.229	.172
332137	TDR0.47/50	.47	50	4.5 x 7 x 2.5	.43	.386	.264	.198
546134	TAP684K035SCS	.68	35	4.3 x 7 x 2.5	.27	.229	.183	.137
61103	TM.68	.68	35	4.5 x 7 x 2.5	.34	.299	.216	.163
546142	TAP684K050SCS	.68	50	4.3 x 7 x 2.5	.34	.306	.245	.184
545588	TAP105K025SCS	1	25	4.3 x 7 x 2.5	.23	.194	.177	.168
545596	TAP105K035SCS	1	35	4.3 x 7 x 2.5	.20	.169	.154	.151
545561	TAP104K035SCS	1	35	4 x 6 x 2.5	.26	.194	.161	.153
33663	TM1	1	35	4.5 x 7 x 2.5	.32	.29	.25	.22
545609	TAP105K050SCS	1	50	4.7 x 7.5 x 2.5	.31	.26	.239	.232
332145	TDR1/50	1	50	8.0 x 5 x 2.5	.38	.33	.26	.219
545705	TAP155K025SCS	1.5	25	4.3 x 7 x 2.5	.26	.224	.202	.194
545713	TAP155K035SCS	1.5	35	4.3 x 7 x 2.5	.31	.279	.223	.167
94003	TM2.2/16	2.2	16	4.5 x 7 x 2.5	.21	.19	.16	.12
33736	TM2.2/35	2.2	35	5 x 8 x 2.5	.39	.35	.29	.22
545799	TAP225K020SCS	2.2	20	4.3 x 7 x 2.5	.31	.279	.223	.167
545801	TAP225K025SCS	2.2	25	4.3 x 7 x 2.5	.25	.21	.206	.197
545810	TAP225K035SCS	2.2	35	4.3 x 7 x 2.5	.26	.24	.232	.214
545828	TAP225K050SCS	2.2	50	5.4 x 8 x 2.5	.54	.487	.445	.402
332152	TDR2.2/50	2.2	50	6.5 x 11 x 2.5	.88	.80	.68	.536
545924	TAP335K010SCS	3.3	10	4 x 6 x 2.5	.20	.18	.144	.108
545932	TAP335K016SCS	3.3	16	4.3 x 7 x 2.5	.27	.243	.194	.146
545941	TAP335K025SCS	3.3	25	4.3 x 7 x 2.5	.34	.303	.242	.182
545959	TAP335K035SCS	3.3	35	4.3 x 7 x 2.5	.42	.378	.302	.227
545967	TAP335K050SCS	3.3	50	5.4 x 8 x 2.5	.91	.83	.74	.67
546054	TAP475K010SCS	4.7	10	4.3 x 7 x 2.5	.25	.213	.193	.184
546062	TAP475K016SCS	4.7	16	4.3 x 7 x 2.5	.29	.243	.194	.146
94036	TM4.7/16	4.7	16	5 x 8 x 2.5	.39	.33	.26	.195
546071	TAP475K025SCS	4.7	25	4.3 x 7 x 2.5	.39	.35	.295	.278
94044	TM4.7/25	4.7	25	5 x 8 x 2.5	.49	.44	.316	.237
546089	TAP475K035SCS	4.7	35	4.7 x 7.5 x 2.5	.34	.292	.234	.187
33807	TM4.7	4.7	35	5.5 x 9.5 x 2.5	.45	.409	.327	.245
546097	TAP475K050SCS	4.7	50	6 x 9.4 x 2.5	1.19	1.09	1.04	.97
546151	TAP685K006SCS	6.8	6.3	4 x 6 x 2.5	.27	.229	.183	.137
546169	TAP685K010SCS	6.8	10	4.3 x 7 x 2.5	.38	.32	.256	.192
546177	TAP685K016SCS	6.8	16	4.3 x 7 x 2.5	.40	.36	.288	.216
546185	TAP685K025SCS	6.8	25	4.7 x 7.5 x 2.5	.52	.45	.36	.298
546193	TAP685K035SCS	6.8	35	4.7 x 7.5 x 2.5	.53	.446	.433	.419
33875	TM6.8	6.8	35	6.5 x 11 x 2.5	.59	.45	.36	.32

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
545617	TAP106K006SCS	10	6.3	4.3 x 7 x 2.5	.33	.279	.254	.243
545625	TAP106K010SCS	10	10	4.7 x 7.5 x 2.5	.43	.284	.266	.238
94062	TM10/16	10	16	5 x 8 x 2.5	.45	.39	.29	.25
545633	TAP106K020SCS	10	20	5.4 x 8 x 2.5	.60	.51	.42	.38
545641	TAP106K025SCS	10	25	5.4 x 8 x 2.5	.59	.51	.41	.39
94080	TM10/25	10	25	5.5 x 9.5 x 2.5	.59	.50	.40	.36
545570	TAP104K050SCS	.10	50	4 x 6 x 2.5	.32	.288	.23	.173
545650	TAP106K035SCS	10	35	5.4 x 8 x 2.5	.98	.90	.72	.54
33691	TM10	10	35	5.5 x 11 x 2.5	.89	.79	.69	.59
332161	TDR10/50	10	50	8.5 x 13 x 2.5	3.78	3.34	2.73	2.04
545721	TAP156K010SCS	15	10	4.7 x 7.5 x 2.5	.45	.41	.328	.246
545730	TAP156K016SCS	15	16	5.4 x 8 x 2.5	.54	.46	.44	.41
545748	TAP156K020SCS	15	20	5.4 x 8 x 2.5	.55	.495	.396	.297
33719	TM15	15	25	6.5 x 11 x 2.5	.89	.80	.72	.54
597468	TAP156K035SCS	15	35	6 x 9.4 x 2.5	1.85	1.58	1.26	.95
545692	TAP154K035SCS	15	35	4 x 6 x 2.5	.21	.189	.151	.113
545836	TAP226K006SCS	22	6.3	4.7 x 7.5 x 2.5	.45	.42	.394	.34
545844	TAP226K010SCS	22	10	5.4 x 8 x 2.5	.51	.44	.425	.411
545852	TAP226K016SCS	22	16	5.4 x 8 x 2.5	.41	.36	.34	.329
94095	TM22/16	22	16	5.5 x 9.5 x 2.5	.76	.65	.54	.50
545861	TAP226K020SCS	22	20	6 x 9.4 x 2.5	1.03	.93	.74	.56
545879	TAP226K025SCS	22	25	6 x 9.4 x 2.5	1.75	1.27	1.15	1.08
545887	TAP226K035SCS	22	35	7 x 11 x 2.5	1.43	1.22	1.19	1.07
332101	TDR22/35	22	35	8.5 x 13 x 2.5	2.15	1.85	1.25	.94
545975	TAP336K006SCS	33	6.3	5.4 x 8 x 2.5	.36	.306	.245	.184
545983	TAP336K010SCS	33	10	5.4 x 8 x 2.5	.59	.50	.40	.30
545991	TAP336K016SCS	33	16	6 x 9.4 x 2.5	1.03	.87	.78	.75
546003	TAP336K020SCS	33	20	6 x 9.4 x 2.5	1.49	1.28	1.02	.77
546011	TAP336K025SCS	33	25	6 x 9.4 x 2.5	1.95	1.66	1.33	1.00
33786	TM33	33	25	8.5 x 13 x 2.5	2.35	2.09	1.67	1.23
546020	TAP336K035SCS	33	35	8.2 x 12.5 x 2.5	3.25	2.77	2.22	1.66
546100	TAP476K010SCS	47	10	6 x 9.4 x 2.5	1.06	.91	.88	.84
546118	TAP476K016SCS	47	16	6 x 9.4 x 2.5	1.65	1.49	1.19	.89
94124	TM47/16	47	16	6.5 x 11 x 2.5	1.85	1.69	1.47	1.04
33823	TM47	47	25	9.5 x 16.5 x 2.5	3.69	3.33	2.82	2.12
546126	TAP476K035SCS	47	35	8.2 x 12.5 x 5	5.65	5.09	3.85	2.89
546206	TAP686K006SCS	68	6.3	6 x 9.4 x 2.5	.63	.54	.43	.324
546214	TAP686K010SCS	68	10	6 x 9.4 x 2.5	1.55	1.39	1.12	.84
546222	TAP686K016SCS	68	16	7 x 11 x 2.5	1.95	1.69	1.35	1.01
546231	TAP686K020SCS	68	20	8.2 x 12.5 x 5	4.19	3.77	3.02	2.26
332099	TDR68/25	68	25	9.5 x 16.5 x 2.5	6.59	5.89	4.63	3.29
545668	TAP107K006SCS	100	6.3	6.0 x 9.4 x 2.5	1.35	1.22	.97	.73
33702	TM100	100	6.3	8.5 x 13 x 2.5	1.19	1.09	.95	.85
597450	TAP107K016SCS	100	16	7 x 11 x 2.5	4.09	3.46	3.14	2.95
545684	TAP107K020SCS	100	20	8.2 x 12.5 x 2.5	4.69	3.97	3.61	3.43
545764	TAP157K006SCS	150	6.3	7 x 11 x 2.5	1.47	1.33	1.06	.80
545772	TAP157K010SCS	150	10	7 x 11 x 2.5	3.89	3.50	2.80	2.10
545895	TAP227K010SCS	220	10	8.2 x 12.5 x 2.5	4.79	4.31	3.45	2.59

### Other Manufacturers — Great Deals\*

33486	TM.1	.10	35	4.5 x 7	.23	.225	.171	.135	33873	TM6.8	6.8	35	6.5 x 11	.52	.468	.374	.281
33507	TM.22	.22	35	4.5 x 7	.27	.237	.184	.137	94060	TM10/16	10	16	5 x 8	.41	.351	.261	.225
33523	TM.33	.33	35	4.5 x 7	.28	.251	.216	.196	94078	TM10/25	10	25	5.5 x 9.5	.53	.45	.36	.324
33531	TM.47	.47	35	4.5 x 7	.24	.219	.182	.179	33689	TM10	10	35	6.5 x 11	.80	.71	.62	.53
154860	TM1/25	1	25	4.5 x 7	.28	.252	.202	.152	33718	TM15	15	25	6.5 x 11	.96	.87	.78	.70
33662	TM1	1	35	4.5 x 7	.29	.261	.225	.198	33751	TM22	22	6.3	5.5 x 9.5	.49	.44	.35	.26
94001	TM2.2/16	2.2	16	4.5 x 7	.29	.24	.176	.132	94094	TM22/16	22	16	5.5 x 9.5	.62	.53	.441	.405
94019	TM2.2/25	2.2	25	4.5 x 7	.29	.24	.20	.15	94107	TM22/25	22	25	8.5 x 13	1.79	1.39	1.29	1.22
33769	TM3.3	3.3	35	5 x 8	.42	.356	.285	.214	33785	TM33	33	25	8.5 x 13	2.09	1.89	1.45	.95
94035	TM4.7/16	4.7	16	5 x 8	.34	.31	.27	.20	94123	TM47/16	47	16	6.5 x 11	1.55	1.39	1.25	.86
94043	TM4.7/25	4.7	25	5 x 8	.39	.35	.281	.211	33822	TM47	47	25	9.5 x 16.5	3.05	2.75	2.09	1.65
33806	TM4.7	4.7	35	5.5 x 9.5	.41	.378	.333	.243	33700	TM100	100	6.3	8.5 x 13	1.31	1.18	.95	.71

\*Capacitor dimensions and styles may vary

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Mylar Capacitors (±10%)

### Metallized Polyester Film Capacitors

- High performance at low cost
- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: ≤0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec

† Cross References: **Panasonic:** ECQ-E Series; **Sprague:** DF/450P/451P/453P; **Westlake:** 160/168/ 185/167/184/186; **Rubycon:** MC/MN; **Mepeco:** 713A1/719A1/ C280; **TRW:** X601PE/ X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/ PHE354; **Roederstein:** MKT 1818/MKT 1822; **WIMA:** MKS; **CSF Thompson:** MD/ MC; **Siemens:** B325X-XX; **NIC:** NEM/NRM; **Nichicon:** DDXM; **Phillips:** 712 A1 series

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Volt. (V)	Size (mm)* L x T x H	Pricing			
					1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0	*	\$ .092	\$ .062	\$ .048
26868	MY.0022	.0022	100	6.0 x 3.0 x 10.0	*	.055	.05	.038
26876	MY.0047	.0047	100	6.0 x 3.0 x 9.0	*	.14	.119	.107
26884	MY.01	.01	100	6.0 x 3.0 x 7.0	*	.13	.096	.091
26905	MY.022	.022	100	6.0 x 3.0 x 10.0	*	.15	.10	.06
26921	MY.033	.033	100	8.0 x 4.0 x 11.0	*	.092	.074	.056
207861	MY.033/400	.033	400	11.0 x 4.0 x 8.0	.36	.245	.144	.108
26930	MY.047	.047	100	8.0 x 4.0 x 12.0	*	.13	.111	.083
135562	MY.1/50	.1	50	14.0 x 6.0 x 12.0	*	.14	.12	.094
26956	MY.1	.1	100	12.5 x 5.0 x 9.5	.27	.233	.185	.119
93921	MY.1/250	.1	250	12.5 x 5.5 x 10	*	.17	.14	.122
26972	MY.22	.22	100	12.5 x 5.5 x 10	.21	.19	.12	.085
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5	.26	.227	.182	.137
26999	MY.47	.47	100	18.0 x 6.0 x 11.5	.32	.249	.20	.149
27001	MY1	1.0	100	18.0 x 7.5 x 14.0	.56	.447	.333	.316
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0	.53	.38	.33	.25
93999	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0	1.11	.90	.75	.65

† ±20% tolerance \* Capacitor dimensions and styles may vary

## Panasonic® Memory Back-Up Capacitors

### Electric Double Layer Gold Capacitors

- Operating temperature range: -25°C to 70°C
- Rated working voltage: 5.5V
- Capacitance tolerance: 20–80%
- Horizontal



#### SD Series

Part No.	Product No.	Nominal Capacitance	Internal Resistance (ohms, 1kHz)	Pricing		
				1	10	100
860801	EEC-S0HD104H	.10F	≤30	\$1.67	\$1.30	\$1.02
860836	EEC-S0HD334HG	.33F	≤75	*	Call	Call

#### SG Series

Part No.	Product No.	Nominal Capacitance	Internal Resistance (ohms, 1kHz)	Pricing		
				1	10	100
860861	EEC-S5R5H474	.47F	30	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing.

## JAMECO ValuePro® Memory Back-Up Capacitors

- Applications:**
- Memory back-up of remote controllers
  - Back-up on CMOS microcomputers, static RAM, DTSS (digital tuning systems)

#### Features:

- Small size vs. capacitance
- Volt.: 5.5VDC
- Excellent volt. holding characteristics for low back-up currents

Part No.	Cross Ref. No.	Value (F)	Size (mm) L x T x Dia.	1	10	100
142949	MBC.22/5.5	.22	11.8 x 6.4 x 12.8	\$2.19	\$1.89	\$1.49
143011	MBC.47/5.5	.47	13.3 x 9.2 x 21.1	3.49	3.15	2.59
<b>Other Manufacturers — Great Deals*</b>						
142957	MBC1.0/5.5	1.0	—	\$4.49	\$3.99	\$3.79
227811	SSR5V105	1.0	24.2 x 4.3 x 18.0	4.49	3.82	2.86

\* Capacitor dimensions and styles may vary

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Metallized Polyester Radial-Lead Capacitors

- Non-inductively wound
- Non-polarized
- Rugged plastic case
- Case and epoxy fill meets UL94V-0
- Good for general purpose applications such as bypass, decoupling, energy storage/discharge and arc suppression

### Type 167/184 ±5%

- 7.5mm (0.3") lead spacing
- Length: 10.5mm
- Operating temperature range: -55°C to 125°C
- Dielectric withstanding voltage: 1.6 x rated voltage for 2 seconds

Part No.	Product No.	Value (µF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528391	167104J63A	.10	63/40	3.5 x 7	\$ .45	\$ .40	\$ .381	\$ .363
528382	167104J100A	.10	100/63	3.5 x 7	.45	.424	.392	.351
528366	167103J250A	.01	250/160	3.5 x 7	.28	.269	.258	.235
528374	167103J400A	.01	400/200	3.5 x 7	.46	.435	.413	.358
528358	167102J630A	.001	630/220	3.5 x 7	.42	.401	.381	.257

### Type 168/185 ±5%

- 5mm (0.197") lead spacing
- Length: 7.2mm
- Low leakage

Part No.	Product No.	Value (µF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528438	168104J50A	.10	50/30	2.5 x 6.5	\$ .33	\$ .293	\$ .264	\$ .238
528462	168105J50G	1.00	50/30	6 x 11	.85	.84	.83	.82
528497	168224J63C	.22	63/40	3.5 x 7.5	.44	.407	.385	.363
528534	168334J63H	.33	63/40	4.5 x 8.5	.55	.52	.494	.428
528577	168474J63H	.47	63/40	4.5 x 8.5	.55	.54	.53	.52
528500	168332J100A	.0033	100/63	2.5 x 6.5	.28	.251	.228	.207
528542	168472J100A	.0047	100/63	2.5 x 6.5	.28	.256	.233	.213
528420	168103J100A	.010	100/63	2.5 x 6.5	.26	.249	.224	.169
528489	168223J100A	.022	100/63	2.5 x 6.5	.25	.238	.229	.207

## Panasonic® V Series ±5% Stacked Metallized Film Capacitors

- High volumetric efficiency
- Low dissipation factor: 1% max.
- Stacked & non-inductive construction
- Operating temperature range: -40°C to 85°C

NEW

For more Panasonic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

\* Minimum order 5 pieces

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					1	5	100
860748	ECQ-V1H103JL5	.01	50	7.3 x 3.2 x 5 x 5	*	Call	Call
920464	ECQ-V1103JM	.01	100	7.3 x 3.2 x 7 x 5	*	.124	.104
920536	ECQ-V1H223JL	.022	50	7.3 x 3.2 x 5 x 5	*	.121	.102
860684	ECQ-V1473JM	.047	100	7.3 x 4 x 7 x 5	*	.107	.09
860772	ECQ-V1H683JL	.068	50	7.3 x 3.2 x 5 x 5	*	.101	.085
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	*	.105	.088
920499	ECQ-V1104JM	.1	100	7.3 x 5.8 x 7 x 5	*	.121	.102
920561	ECQ-V1H224JL	.22	50	7.3 x 4.8 x 5.5 x 5	*	.13	.11
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	*	.177	.148
860713	ECQ-V1474JM	.47	63	10.2 x 4.5 x 9 x 7.5	*	.227	.191
920624	ECQ-V1J474JM	.47	100	10 x 8.1 x 11 x 7.5	*	.174	.146

\* Please call or visit our website for minimum order quantity and pricing.



## Axial-Lead Metallized Polyester Capacitors

### Type 150 ±5%

- Flame retardant wrap & fill axial capacitors
- Epoxy end fill meets UL94V-0
- Flame retardant outer wrap meets UL510
- Non-inductively wound
- General purpose capacitor for use in blocking, bypass, decoupling, smoothing, and timing applications
- Non polarized

Part No.	Product No.	Value (µF)	Volts	L x Dia. (mm)	1	10	100	500
527911	150104J100AA	.10	100	11 x 5	\$ .47	\$ .444	\$ .433	\$ .422
527961	150224J100CB	.22	100	16.5 x 6.5	.56	.533	.522	.51
527996	150474J250HC	.47	250	20.5 x 9.5	.82	.77	.73	.68
527902	150103J400AA	.010	400	11 x 5	.46	.43	.404	.373
527890	150102J630AA	.001	630	11 x 5	.51	.49	.47	.427
527937	150104J630FE	.10	630	28 x 8.5	1.06	.99	.94	.88

# Polyester, Suppressor & Mica Capacitors

Color Code Legend			
New	Sale	Lower\$	QtySave

## Panasonic® Polyester Capacitors

For more Panasonic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

- Operating temperature range: -40°C to 85°C

NEW



### ECQB(F) Series

- Capacitance tolerance: 5%
- Construction: polyester film, non-inductive epoxy coating
- High volumetric efficiency, low loss, high stability

\* Minimum order 10 pieces

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					1	10	100
860203	ECQ-B1H104JF4R	.1	50	8 x 5 x 10 x 5	★	Call	Call
860238	ECQ-B1H334JF	.33	50	13 x 6.5 x 15 x 10	.64	.59	.76

★ Please call or visit our website for minimum order quantity and pricing.

### ECQP(U) Series

- Capacitance tolerance: 5%
- Flame retardant epoxy resin coating
- Non-inductive construction
- Dissipation factor: 0.1% max. @ 1kHz

860502	ECQ-P6102JU	.001	630	14.5 x 15.5 x 5 x 10	*	\$ .272	\$ .228
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### ECQP(Z) Series

- Capacitance tolerance: 2%
- High insulation resistance
- Non-inductive construction
- Close capacitance tolerance
- Low dissipation factor: 1% max. @ 1kHz
- Epoxy resin coating

860414	ECQ-P1H152GZ	.0015	50	8.5 x 7.5 x 4.5 x 5	*	\$ .378	\$ .319
860431	ECQ-P1H182GZ	.0018	50	8.5 x 7.5 x 4.5 x 5	*	.378	.319
860465	ECQ-P1H272GZ	.0027	50	8.5 x 7.5 x 4.5 x 5	*	.378	.319

### ECQE(B) Series Miniaturized Metallized

- Capacitance tolerance: ±10% @ 1kHz
- Wound metallized polyester dielectric
- Non-inductive construction
- Down sized version of ECQE(F) version

860326	ECQ-E2225KB	2.2	250	20.8 x 15.6 x 8.4 x 17.5	\$ .95	\$ .81	\$ .61
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### ECQE(F) Series Miniaturized Metallized

- Capacitance tolerance: ±10%
- Dissipation factor: 1% max.

860385/860262:

- Self-healing property
- Flame retardant epoxy resin coating

860351	ECQ-E6473KZ	.047	630	17 x 13.5 x 7 x 1	\$ .56	\$ .49	\$ .38
860297	ECQ-E2104KS	.10	250	12.5 x 10.5 x 5.5 x 1	*	.213	.169
860385	ECQ-E6474KF	.47	630	26 x 16.5 x 9.3 x 22.5	1.07	.91	.68
860262	ECQ-E1275KF	2.7	100	18.5 x 15.8 x 8 x 15	1.67	1.31	.98

## CDE Polyester & Polypropylene Film/Foil Capacitors

### Type PVC ±10%

- Non-inductively wound
- Rugged epoxy case material meets UL94V-0
- Crimped leads for secure PCB insertion
- Insulation resistance: polyester – 100,000MΩ
- Voltage range: polyester – 100VDC to 1000VDC; polypropylene – 1200VDC to 2000VDC for ≤0.25µF, 25,000MΩ >0.25µF; polypropylene – 400,000MΩ ≤0.50µF, 200,000MΩ ≥0.50µF
- Dielectric withstanding voltage: 250% rated voltage for <1000V, 200% rated voltage for ≥1000V
- Non-polarized



200VDC/140VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536930	PVC211	.10	17.8 x 8.4	12.7mm	\$1.09	\$1.01	\$ .91	\$ .86

400VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536948	PVC401	.10	30.5 x 13.5	24.6mm	\$1.95	\$1.74	\$1.56	\$1.40

600VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536999	PVC6147	.047	30.5 x 14.2	24.6mm	\$ .89	\$ .80	\$ .78	\$ .76
536956	PVC601	.10	130.5 x 16.5	24.6mm	2.45	2.18	1.96	1.76

1000VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536884	PVC10010	.10	40.6 x 21.6	34.1mm	\$3.55	\$3.45	\$3.27	\$3.11

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

CDE

## Radial Metallized Polyester RC Network for Transient Suppression Capacitors

### Type Q/QRL (Quencharc®) Arc Suppressor/ Snubber Network

- Noise and arc suppression
- Type QRL – UL/CSA version
- Voltage range: 200VDC/125VAC
- Size: 27.4L x 9.4Th. x 16.3H mm
- Noise reduction on controllers and drives
- Capacitance tolerance: ±20%
- Operating temperature range: -55°C to 85°C
- Metallized polyester in series with a carbon composition resistor
- Dielectric withstanding voltage: 1.6 x DC rated voltage
- Relay contact protection
- Lead spacing: 20.8mm
- EMI/RFI reduction
- Resistor tolerance: ±10%
- RC snubber network



Part No.	Product No.	Value (µF)	Resistor Value	1	10	100	500
527881	105M020B47	1.0	1/2W: 100Ω	\$5.19	\$5.09	\$4.86	\$4.62

Panasonic®

## Interference Suppressor Capacitors (X-Y Series Metallized Film)

- Capacitance tolerance: ±20%
- Dissipation factor: less than 1% @ 1kHz

NEW



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### ECQU(N) Series – Class X2

- Operating temperature range: -40°C to 85°C

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					1	10	100
860650	ECQ-U2A473MNN	.047	250	25.5 x 14 x 7.0 x 21.5	\$1.15	\$ .99	\$ .82

### ECQU(G) [Class X1] and ECQU(L) [Class X2, Class Y2/X2] Series

- Operating temperature range: -40°C to 100°C

\* Minimum order 10 pieces

860625	ECQ-U2A473ML	.047	250/275	15 x 13 x 6 x 12.5	*	\$ .166	\$ .131
860537	ECQ-U2A104MGR	.1	250/275	15 x 16.5 x 8 x 12.5	1.04	.90	.71

CDE

## Standard Dipped Mica Capacitors

### Type CD15/CD19/CDV19

- High temperature up to 150°C
- Dimensions meet EIA RS153B specifications
- 100,000V/µs dV/dt pulse capability minimum
- Dielectric strength: 200% of rated voltage
- Tolerance: ±1/2pF (D); ±pF (C); ±1.2% (E); ±1% (F); ±2% (G); ±5% (J)



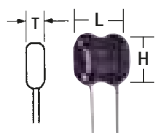
Part No.	Product No.	Value (pF)	Volt VDC	Size (mm) LxHxTh.	Spacing (mm)	Pricing			
						1	10	100	1000
530466	CD15ED200D03	20	500	11.4x9.1x4.3	5.9	\$ .84	\$ .76	\$ .69	\$ .62
530511	CD15ED270J03	27	500	11.4x9.1x4.3	5.9	.72	.66	.59	.55
530669	CD15ED820J03	82	500	11.4x9.1x4.6	5.9	.55	.54	.53	.52
531039	CD19FD102J03	1000	500	16.5x13.2x5.6	8.7	1.19	1.18	1.16	1.15
531194	CD19FD392J03	3900	500	17.5x14.2x7.9	8.7	3.59	3.51	3.47	3.43
531776	CDV19FF391J03	390	1000	16.5x13x5.1	8.7	1.29	1.21	1.18	1.14

## Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance: ±5%
- Operating temp. range: -55° to +125°C

Quantity SAVE



Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) L x T x H	1	10	100	1000
15991	DM100	10pF	500	11 x 4 x 9	\$ .49	\$ .44	\$ .333	\$ .249
16037	DM220	22pF	500	11 x 4 x 9	.52	.43	.343	.28
16070	DM330	33pF	500	11 x 4 x 9	.46	.414	.331	.248
16096	DM470	47pF	500	11 x 4 x 9	.46	.414	.331	.248
16002	DM101	100pF	500	11 x 4 x 9	.45	.36	.30	.25
16088	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.413
16109	DM471	470pF	500	11 x 4 x 9	1.05	.95	.76	.57
16011	DM102	1000pF	100	11 x 4 x 9	1.43	1.29	1.04	.77

\* Capacitor dimensions and styles may vary

## Panasonic® Snap-In Capacitor

### T-UP Series Snap-In Capacitor

- Top vent construction
- 4-pin terminal provides stability and keyed polarity
- General purpose rated at 85°C, 3,000 hours
- Operating temperature range: -40°C to 85°C

For more Panasonic Snap-In Capacitors visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100
857063	ECE-T2GP102FA	1000	400	40 x 60	\$13.01	\$12.45	\$9.99



## CDE Radial Snap-In Capacitors

### Type LP ±20%

- High reliability
- Small size, rated for low-voltage applications
- Ideal for use in switch-mode power supplies
- PVC sleeve insulation
- Polarized
- Stable ESR



Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100	500
535881	LP272M035C1P3	2,700	35	25 x 25	\$2.95	\$2.71	\$2.46	\$2.24
535873	LP222M025H9P3	22,000	25	35 x 50	5.95	5.24	4.98	4.88

### Type LPX ±20%

- Compact design for high density packaging
- High capacitance
- Ideal for high voltage switch-mode power supply input filtering applications
- Low voltage
- Polarized
- PVC insulating sleeve

Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100	500
535988	LPX101M450C3P3	100	450	25 x 30	\$4.85	\$4.36	\$3.92	\$3.52

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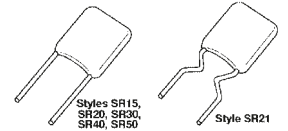


- Conformally coated radial leaded MLC
- Temperature coefficients: NPO, X7R, Z5U
- Case material: epoxy
- Lead material: 24AWG solid copper plated

## Radial Ceramic Capacitors

For more AVX Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

AVX Style	SR15 (A) Case	SR21 (B) Case	SR30 (C) Case	SR40 (D) Case	SR50 (E) Case
Width (W)	3.81mm (0.150")	5.08mm (0.200")	7.62mm (0.300")	10.16mm (0.400")	12.70mm (0.500")
Height (H)	3.81mm (0.150")	5.08mm (0.200")	7.62mm (0.300")	10.16mm (0.400")	12.70mm (0.500")
Thickness (T)	2.54mm (0.100")	3.175mm (0.125")	3.81mm (0.150")	3.81mm (0.150")	5.08mm (0.200")
Lead spacing (L.S.)	2.54mm (0.100")	5.08mm (0.200")	5.08mm (0.200")	5.08mm (0.200")	10.16mm (0.400")
Lead diameter (L.D.)	0.508mm (0.020")	0.508mm (0.020")	0.508mm (0.020")	0.508mm (0.020")	0.635mm (0.025")



### NPO Leaded Case

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Temp. Coeff.	Value	Volts	Tolerance	Case	1	10	100
849194	SR151A100JAA	NPO	10pF	100	5%	A	* .135	.131	
767324	SR151A180JAA	NPO	18pF	100	5%	A	* .135	.131	
767341	SR151A220JAA	NPO	22pF	100	5%	A	* .135	.131	
767359	SR151A220JAR	NPO	22pF	100	5%	A	* .135	.131	
849274	SR151A220KAA	NPO	22pF	100	10%	A	* .115	.112	
767447	SR151A680JAA	NPO	68pF	100	5%	A	* .135	.131	
767455	SR151A680KAA	NPO	68pF	100	10%	A	* .15	.144	
767800	SR211A680JAA	NPO	68pF	100	5%	B	* .191	.189	
849215	SR151A101JAA	NPO	100pF	100	5%	A	* .085	.082	
849240	SR151A101KAA	NPO	100pF	100	10%	A	* .15	.146	
767332	SR151A181JAA	NPO	180pF	100	5%	A	* .15	.147	
849303	SR151A221JAA	NPO	220pF	100	5%	A	* .15	.147	
767367	SR151A221KAA	NPO	220pF	100	10%	A	* .118	.115	
767797	SR211A391JAA	NPO	390pF	100	5%	B	* .193	.189	
767412	SR151A471JAA	NPO	470pF	100	5%	A	* .17	.167	
767421	SR151A561JAA	NPO	560pF	100	5%	A	* .193	.189	
767885	SR215A102KAA	NPO	1000pF	50	10%	B	* .173	.171	
849451	SR201A102JAA	NPO	1000pF	100	5%	B	* .184	.146	
767607	SR201A102JAR	NPO	1000pF	100	5%	B	* .109	.106	
849661	SR211A102JAA	NPO	1000pF	100	5%	B	* .165	.136	
768124	SR305A103JAA	NPO	.01µF	50	5%	C	.87	.76	.72
768132	SR305A103JAR	NPO	.01µF	50	5%	C	.77	.71	.65
768061	SR301A103JAA	NPO	.01µF	100	5%	C	* .44	.43	
768079	SR301A103JAR	NPO	.01µF	100	5%	C	.77	.71	.65
768212	SR405A473JAA	NPO	.047µF	50	5%	D	3.09	2.93	2.63

### X7R Leaded Case

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Temp. Coeff.	Value	Volts	Tolerance	Case	1	10	100
767463	SR151C102KAR	X7R	1000pF	100	10%	A	* .064	.062	
767471	SR151C102MAA	X7R	1000pF	100	20%	A	* .098	.095	
767818	SR211C102KAA	X7R	1000pF	100	10%	2	* .087	.083	
767480	SR151C332KAA	X7R	3300pF	100	10%	A	* .108	.106	
767842	SR211C472KAA	X7R	4700pF	100	10%	B	* .192	.172	
849362	SR155C103KAA	X7R	.01µF	50	10%	A	* .108	.105	
767543	SR155C103KAR	X7R	.01µF	50	10%	A	* .071	.069	
849830	SR215C103KAA	X7R	.01µF	50	10%	B	* .099	.095	
767826	SR211C103KAR	X7R	.01µF	100	10%	B	* .116	.098	
767560	SR155C223KAA	X7R	.022µF	50	10%	A	* .108	.106	
767631	SR201C333KAA	X7R	.033µF	100	10%	B	* .15	.147	
767674	SR205C473KAA	X7R	.047µF	50	10%	B	* .163	.159	
849522	SR205C104KAA	X7R	.1µF	50	10%	B	* .126	.107	
767658	SR205C104KAR	X7R	.1µF	50	10%	B	* .173	.125	
767893	SR215C104KAR	X7R	.1µF	50	10%	B	* .146	.116	
767914	SR215C104MAA	X7R	.1µF	50	20%	B	* .15	.147	
767922	SR215C104MAR	X7R	.1µF	50	20%	B	* .225	.213	
849477	SR201C104KAA	X7R	.1µF	100	10%	B	* .104	.101	
767615	SR201C104KAR	X7R	.1µF	100	10%	B	* .174	.147	
767834	SR211C104KAR	X7R	.1µF	100	10%	B	* .155	.124	
767931	SR215C154KAA	X7R	.15µF	50	10%	B	* .305	.299	
849899	SR215C224KAA	X7R	.22µF	50	10%	B	* .29	.27	
767949	SR215C224KAR	X7R	.22µF	50	10%	B	* .195	.189	
768095	SR301C224KAA	X7R	.22µF	100	10%	C	.65	.62	.60
768175	SR305C474KAR	X7R	.47µF	50	10%	C	.95	.72	.521
850072	SR305C105KAA	X7R	1µF	50	10%	C	.69	.65	.63
768141	SR305C105KAR	X7R	1µF	50	10%	C	.61	.59	.57
768159	SR305C105MAA	X7R	1µF	50	20%	C	1.09	1.07	1.05
850110	SR401C105KAA	X7R	1µF	100	10%	D	1.45	1.41	1.38
768204	SR401C105KAR	X7R	1µF	100	10%	D	1.45	1.41	1.38
768255	SR505C105KAA	X7R	1µF	50	10%	E	4.29	4.25	4.19
768239	SR405C225KAA	X7R	2.2µF	50	10%	D	3.99	3.87	3.75

### Ceramic Leaded X7R (Tape and Reel)

**NEW**

Part No.	Product No.	Temp. Coeff.	Value	Volts	Tolerance	Case	Pricing
849338	SR151C103KAATR1	X7R	.01µF	100	10%	A	★ Call Call
849725	SR211C103KAATR1	X7R	.01µF	100	10%	B	★ Call Call
849506	SR201C104KAATR1	X7R	.1µF	100	10%	B	★ Call Call
849750	SR211C104KAATR1	X7R	.1µF	100	10%	B	★ Call Call



★ Please call or visit our website for minimum order quantity and pricing.



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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# Ceramic Capacitors (Continued)

Color Code Legend			
New	Sale	Lower\$	QtySave

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## Radial Ceramic Capacitors (Continued) NEW

### Ceramic Leaded Z5U (Bulk)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	5	100
849426	SR155E103MAA	Z5U	.01µF	50	20%	A	*	\$.154	\$.137
767578	SR155E103MAR	Z5U	.01µF	50	20%	A	*	.161	.154
767586	SR155E103MAT	Z5U	.01µF	50	20%	A	*	.136	.122
767501	SR151E103MAA	Z5U	.01µF	100	20%	A	*	.136	.122
767851	SR211E103MAA	Z5U	.01µF	100	20%	B	*	.171	.147
767594	SR155E473MAA	Z5U	.047µF	50	20%	A	*	.144	.13
767682	SR205E104MAR	Z5U	.1µF	50	20%	B	*	.059	.056
767703	SR205E104MAT	Z5U	.1µF	50	20%	B	*	.051	.046
849910	SR215E104MAA	Z5U	.1µF	50	20%	B	*	.059	.056
767965	SR215E104MAR	Z5U	.1µF	50	20%	B	*	.059	.056
767981	SR215E104MAT	Z5U	.1µF	50	20%	B	*	.051	.046
849961	SR215E104ZAA	Z5U	.1µF	50	+80/-20%	B	*	.131	.118
768036	SR225E104MAA	Z5U	.1µF	50	20%	B	*	.192	.176
767640	SR201E104MAA	Z5U	.1µF	100	20%	B	*	.223	.196
849784	SR211E104MAA	Z5U	.1µF	100	20%	B	*	.127	.118
767711	SR205E224MAA	Z5U	.22µF	50	20%	B	*	.236	.196
768001	SR215E224MAA	Z5U	.22µF	50	20%	B	*	.236	.206
767869	SR211E224MAA	Z5U	.22µF	100	20%	B	*	.337	.303
767720	SR205E334MAA	Z5U	.33µF	50	20%	B	*	.23	.207
767738	SR205E474MAA	Z5U	.47µF	50	20%	B	*	.239	.229
850013	SR215E474MAA	Z5U	.47µF	50	20%	B	*	.231	.216
768010	SR215E474MAR	Z5U	.47µF	50	20%	B	*	.196	.176
850056	SR301E474MAA	Z5U	.47µF	100	20%	C	*	.305	.291
768116	SR301E474MAR	Z5U	.47µF	100	20%	C	*	.27	.243
849995	SR215E105MAA	Z5U	1µF	50	20%	B	.29	.281	.267
767990	SR215E105MAR	Z5U	1µF	50	20%	B	*	.281	.267
768183	SR305E105MAR	Z5U	1µF	50	20%	C	.28	.272	.259
768191	SR385E105MAT	Z5U	1µF	50	20%	C	.71	.64	.58
850030	SR301E105MAA	Z5U	1µF	100	20%	C	.43	.421	.363
768108	SR301E105MAR	Z5U	1µF	100	20%	C	.43	.421	.40
768247	SR405E225MAA	Z5U	2.2µF	50	20%	D	2.89	2.59	2.33
850136	SR505E475MAA	Z5U	4.7µF	50	20%	E	3.15	2.84	2.56
768263	SR505E475MAR	Z5U	4.7µF	50	20%	E	3.15	2.84	2.56

### Ceramic Leaded Z5U (Tape and Reel)

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing		
767691	SR205E104MART1R	Z5U	.1µF	50	20%	B	*	Call	Call
767973	SR215E104MART1R	Z5U	.1µF	50	20%	B	*	Call	Call
849805	SR211E104MAAT1R	Z5U	.1µF	100	20%	B	*	Call	Call
850099	SR305E105MAAT1R	Z5U	1µF	50	20%	C	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing.

## MR & MA Series Ceramic Capacitors

NEW

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AVX Style	MA10	MA40	MR07	MR08
Length (L)	4.07mm (0.160")	9.91mm (0.240")	12.44mm (0.490")	12.44mm (0.490")
Width (W)			12.44mm (0.490")	12.44mm (0.490")
Diameter	2.29mm (0.090")	3.56mm (0.140")		
Thickness (T)			2.55mm (0.140")	6.09mm (0.240")
Lead Spacing (L.S.)			10.16mm (0.400")	10.16mm (0.400")
Lead Diameter	0.48mm (0.019")	0.63mm (0.025")	0.635mm (0.025")	0.635mm (0.025")
Lead Length	25.4mm (1.0")	25.4mm (1.0")		

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	1	5	100
767181	MA105A102FAA-BULK	NPO	1000pF	50	10%	\$2.39	\$2.13	\$1.92
767201	MA405A103JAA	NPO	.01µF	50	5%	*	Call	Call
767287	MR075A104JRR	NPO	.1µF	50	5%	14.49	13.06	11.75
767199	MA105C103JAA-BULK	X7R	.01µF	50	5%	.71	.64	.58
767279	MR072C47KAA	X7R	.47µF	50	10%	24.15	21.72	19.55
767295	MR085C475MAA	X7R	4.7µF	50	20%	32.79	29.50	26.55

\* Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

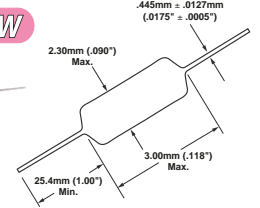
♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Axial Leaded Multilayer Ceramic Capacitors

- Conformally coated radial leaded MLC
- Temperature coefficient: NPO, X7R, Z5U
- Case material: epoxy (flame retardant to UL 492)
- Lead material: solderable

NEW

AVX Style	SA10 (A)	SA11 (B)
Length (L)	4.32mm (0.170")	4.32mm (0.170")
Diameter (D)	2.54mm (0.100")	3.05mm (0.120")
Lead Diameter	0.445mm (0.0175")	0.445mm (0.0175")
Lead Length	25.4mm (1.0")	25.4mm (1.0")

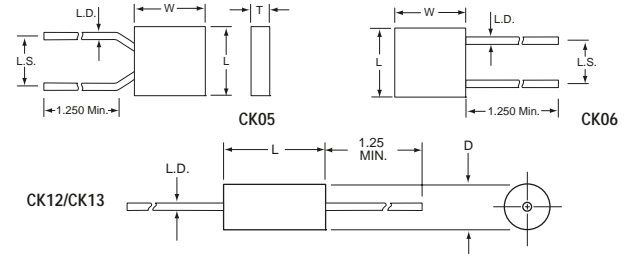


Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing		
848968	SA101A221JAA	NPO	220pF	100	5%	A	*	Call	Call
848992	SA101A471JAA	NPO	470pF	100	5%	A	*	Call	Call
849047	SA105C103MAA	X7R	.01µF	50	20%	A	*	Call	Call
849071	SA105C104KAA	X7R	.1µF	50	10%	A	*	Call	Call
849135	SA105E104MAR	Z5U	.1µF	50	20%	A	*	Call	Call
849160	SA115E334MAA	Z5U	.33µF	50	20%	B	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing.

## CK05 & CK06 Series Radial Leaded Ceramic Capacitors NEW

- General Purpose
- Tolerance: 10%, 20%
- Molded case
- Operating temp.: -55°C to 125°C
- Meets MIL spec MIL-C-11015



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Case Size	PER MIL SPEC			
MIL-C-11015	CK05	CK06	CK12	CK13
Length (L)	4.83mm (0.190")	7.37mm (0.290")	4.07mm (0.160")	6.35mm (0.250")
Width (W)	4.83mm (0.190")	7.37mm (0.290")		
Thickness (T)	2.29mm (0.090")	2.29mm (0.090")		
Diameter (D)			2.29mm (0.090")	2.29mm (0.090")
Lead Spacing (L.S.)	5.08mm (0.200")	5.08mm (0.200")		
Lead Diameter (L.D.)	0.64mm (0.025")	0.64mm (0.025")	0.48mm (0.019")	0.48mm (0.019")

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	1	5	100
767113	CK05BX223M	X7R	.022µF	200	20%	*	\$.237	\$.213
767121	CK06BX222K	X7R	2200pF	200	10%	*	.261	.235
767148	CK06BX564K	X7R	.56pF	200	10%	1.99	1.78	1.60
767130	CK06BX333K	X7R	.033µF	200	10%	*	.26	.234
767156	CK12BX100K	X7R	10pF	100	10%	.70	.63	.57
767164	CK13BR473K	X7R	.047µF	50	10%	.75	.67	.60

## CDE Ceramic Capacitors

### P10 - P40 Series Multi-Layer

- Axial leaded conformally coated
- Applications: filtering, bypass, coupling
- Encapsulation consists of a moisture and shock resistant coating that meets UL04V-0

### 50VDC, X7R, ±10%

Prepackaged: please order in increments of 10

Part No.	Product No.	Value	Dimensions	10	100	500	1000
536526	P10R103K5	.01µF	0.10"Dia. x 0.17"L	\$1.27	\$1.23	\$1.19	\$1.13
536542	P20R104K5	.1µF	0.12"Dia. x 0.17"L	.157	.153	.151	.149

### 50VDC, Z5U, ±20%

Part No.	Product No.	Value	Dimensions	10	100	500	1000
536534	P10U104M5	.1µF	0.10"Dia. x 0.17"L	\$1.10	\$0.96	\$0.91	\$0.86
536551	P40U105M5	1µF	0.15"Dia. x 0.40"L	1.07	.96	.86	.77

**CDE**

## Ceramic Disc Capacitors

### General Purpose Disc

- Ideal for use in non-critical coupling, bypass and filter applications
- Conformally coated
- Temp. range: -30°C to +85°C
- Lead length: 1" minimum
- Lead dia.: 0.025" (except P/N 535638: 0.016")
- Insulation resistance: 10,000MΩ min.
- Power factor @ 1kHz: 2.5% max.
- Breakdown voltage: 2.5 x rated (5 seconds max.)



Y5P, 10%

Prepackaged: please order in increments of 10

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535700	GP347	470	1000	0.24" x 0.18"	0.252"	\$.29	\$.26	\$.23	\$.20
535671	GP222	2200	1000	0.37" x 0.18"	0.252"	.45	.41	.37	.336

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**Quantity SAVE**

## Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.



\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332179	CD1/50	1pF	50	5 x 2.5	*	\$.014	\$.009	\$.008	\$.007
332291	CD3.3/1000	3.3pF	1000	5 x 2.5	.20	.176	.103	.098	.074
332188	CD5/50	5pF	50	5 x 2.5	*	.056	.028	.027	.026
332304	CD5/1000	5pF	1000	5 x 2.5	*	.143	.108	.097	.073
15335	DC10	10pF	50	5 x 2.5	*	.07	.05	.02	.015
332196	CD12/50	12pF	50	5 x 2.5	*	.015	.01	.009	.008
332209	CD15/50	15pF	50	5 x 2.5	*	.03	.018	.016	.015
332321	CD20/1000	20pF	1000	5 x 2.5	.44	.35	.20	.18	.135
15407	DC22	22pF	50	6 x 2.5	*	.066	.034	.027	.028
332340	CD22/1000	22pF	1000	5 x 2.5	*	.10	.056	.052	.047
332217	CD33/50	33pF	50	5 x 2.5	*	.069	.033	.031	.025
15512	DC47	47pF	50	5 x 2.5	*	.055	.039	.022	.017
332225	CD68/50	68pF	50	5 x 2.5	*	.08	.041	.036	.031
332355	CD68/1000	68pF	1000	5 x 2.5	*	.141	.095	.086	.065
15343	DC100	100pF	50	5 x 2.5	*	.056	.039	.028	.022
332232	CD120/1000	120pF	50	5 x 2.5	*	.056	.029	.027	.02
332363	CD120/1000	120pF	1000	5 x 2.5	.23	.206	.147	.081	.06
332371	CD150/1000	150pF	1000	5 x 2.5	.23	.201	.143	.079	.059
15415	DC220	220pF	50	5 x 2.5	*	.05	.035	.025	.015
332398	CD330/1000	330pF	1000	5 x 2.5	.42	.235	.17	.096	.068
15530	DC470	470pF	50	5 x 2.5	*	.09	.072	.028	.021
332401	CD470/1000	470pF	1000	5 x 2.5	.42	.235	.17	.096	.072

## Panasonic® Ceramic Disc Capacitors

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- Operating temp. range: -25°C to 85°C
- Capacitance tolerance: ±20%
- Dissipation factor: 0.025% max. @ 1kHz

**NEW**

### Type NS-A

\* Minimum order 5 pieces

Part No.	Product No.	Capacitance Value	Voltage	Dimensions (mm) Dia. x Th. x L.S.	Pricing		
					1	5	100
859851	ECK-ANA102MB	1000pF	250	11 x 8 x 5	*	\$.353	\$.287

### Type TS-A

Part No.	Product No.	Capacitance Value	Voltage	Dimensions (mm) Dia. x Th. x L.S.	Pricing		
					1	5	100
859886	ECK-ATS102ME	1000pF	250	7 x 7 x 7.5	*	\$.257	\$.209

\* Blue Part No. = Limited Quantity Available

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332419	CD560/1000	560pF	1000	6 x 2.5	*	\$.047	\$.043	\$.034	\$.025
332241	CD680/50	680pF	50	5 x 2.5	*	.048	.026	.023	.018
332427	CD680/1000	680pF	1000	6 x 2.5	*	.149	.084	.071	.053
332436	CD1000/1000	1000pF	1000	5 x 2.5	.39	.247	.179	.101	.095
332259	CD1200/50	1200pF	50	5 x 2.5	*	.056	.03	.027	.02
332267	CD1500/50	1500pF	50	5 x 2.5	*	.056	.03	.027	.02
332275	CD2200/50	2200pF	50	5 x 2.5	*	.085	.077	.062	.047
332451	CD4700/1000	4700pF	1000	7 x 2.5	.35	.315	.268	.214	.161
332460	CD5000/1000	5000pF	1000	7 x 2.5	.31	.30	.186	.177	.132
332478	CD7500/1000	7500pF	1000	8 x 2.5	.48	.456	.323	.307	.23
15192	DC.001	.001µF	50	6 x 2.5	*	.067	.056	.028	.024
97342	DC.0022/1K20	.0022µF	1000	11 x 2.5	.49	.44	.33	.144	.108
15231	DC.01	.01µF	50	6 x 2.5	*	.067	.045	.033	.023
97377	DC.01/1K20	.01µF	1000	12 x 2.5	*	.20	.133	.093	.073
332487	CD20000/1000	.02µF	1000	16 x 2.5	.60	.57	.33	.26	.185
15246	DC.022	.022µF	50	8 x 2.5	*	.07	.063	.05	.037
15255	DC.047	.047µF	50	8 x 2.5	*	.093	.083	.066	.049
332494	CD47000/1000	.047µF	1000	16 x 2.5	1.59	1.22	.71	.68	.51
332507	CD50000/1000	.05µF	1000	16 x 2.5	1.35	1.28	.81	.65	.488
151118	DC.1/25	.1µF	25	6 x 2.5	*	.155	.145	.089	.078
15272	DC.1	.1µF	50	8 x 2.5	*	.167	.145	.128	.105
332516	CD100000/1000	.1µF	1000	21 x 2.5	1.99	1.83	1.07	.85	.81

## Other Manufacturers — Great Deals\*

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
15333	DC10	10pF	50	5	*	\$.063	\$.054	\$.043	\$.032
15405	DC22	22pF	50	6	*	.076	.054	.027	.021
15510	DC47	47pF	50	5	*	.05	.045	.036	.027
15341	DC100	100pF	50	5	*	.05	.035	.025	.02
15413	DC220	220pF	50	5	*	.046	.033	.023	.017
15528	DC470	470pF	50	5	*	.078	.03	.027	.028
15190	DC.001	.001µF	50	6	*	.06	.054	.043	.032

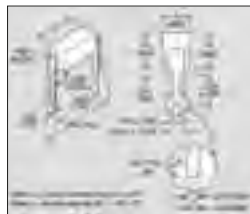
\* Capacitor dimensions and styles may vary

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
97341	DC.0022/1K20	.0022µF	1000	11	\$.27	\$.242	\$.166	\$.097	\$.072
15211	DC.0047	.0047µF	50	6	*	.045	.032	.027	.02
15229	DC.01	.01µF	50	6	*	.06	.04	.03	.02
97375	DC.01/1K20	.01µF	1000	12	.20	.146	.139	.111	.083
15245	DC.022	.022µF	50	8	*	.063	.045	.036	.027
15253	DC.047	.047µF	50	8	*	.084	.076	.06	.045
151116	DC.1/25	.1µF	25	6	*	.15	.135	.115	.086
15270	DC.1	.1µF	50	8	*	.153	.133	.117	.097



- DIP package
- Tolerances: 10%, 20%
- Operating temp.: X7R: -55°C; Z5U: -10°C to 85°C

Length (L)	6.60mm (0.260")
Height (H1)	3.43mm (0.135")
Height (H2)	4.19mm (0.165")
Thickness	2.54mm (0.098")



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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
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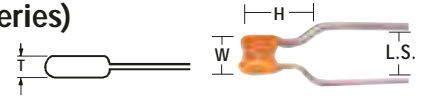
## Monolithic Ceramic Capacitors (±10%) (XR7 Series)

Applications: • Data processing  
Operating temp. range: -10°C to +85°C

• Communications engineering



Quantity SAVE



\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
332583	MOC100/100	100pF	100	5.0x5.0x3.0x2.5	*	\$ .14	\$ .12	\$ .081	\$ .061
332591	MOC220/100	220pF	100	5.0x5.0x3.0x2.5	.27	.188	.134	.074	.07
332603	MOC330/100	330pF	100	5.0x5.0x3.0x2.5	.27	.188	.134	.094	.071
332611	MOC470/100	470pF	100	5.0x5.0x3.0x2.5	*	.121	.088	.08	.076
544825	SR151C102KAA	1000pF	100	3.8x2.5x3.8x5.1	*	.087	.069	.043	.041
332620	MOC1000/100	1000pF	100	5.0x5.0x3.0x2.5	*	.107	.078	.055	.041
544841	SR151C222KAA	2200pF	100	3.8x2.5x3.8x5.1	*	.104	.094	.074	.071
544850	SR151C472KAA	4700pF	100	3.8x2.5x3.8x5.1	*	.092	.083	.066	.05
332638	MOC4700/100	4700pF	100	5.0x5.0x3.0x2.5	*	.107	.078	.055	.052
597281	SR211C103KAA	.01μF	100	3.8x2.5x3.8x5.1	*	.118	.098	.046	.044
544833	SR151C103KAA	.01μF	100	3.8x2.5x3.8x5.1	*	.103	.088	.054	.053

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
332647	MOC10000/100	.01μF	100	5.0x5.0x3.0x2.5	*	\$ .125	\$ .09	\$ .063	\$ .06
544892	SR211C223KAA	.022μF	100	3.8x2.5x3.8x5.1	*	.111	.10	.08	.06
332655	MOC22000/100	.022μF	100	5.0x5.0x3.0x2.5	.20	.111	.08	.056	.053
544905	SR211C333KAA	.033μF	100	3.8x2.5x3.8x5.1	*	.142	.13	.105	.097
544913	SR211C473KAA	.047μF	100	3.8x2.5x3.8x5.1	*	.142	.139	.11	.107
332663	MOC47000/100	.047μF	100	5.0x5.0x3.0x2.5	.21	.142	.139	.073	.069
544921	SR215C104KAA	.1μF	50	3.8x2.5x3.8x5.1	*	.111	.088	.057	.054
544884	SR211C104KAA	.1μF	100	3.8x2.5x3.8x5.1	*	.127	.09	.068	.061
332672	MOC100000/100	.1μF	100	5.0x5.0x3.0x2.5	*	.132	.096	.067	.064
332689	MOC150000/100	.15μF	50	5.0x5.0x3.0x2.5	.45	.405	.344	.275	.206
544948	SR305C474KAA	.47μF	50	3.8x2.5x3.8x5.1	.46	.396	.24	.232	.224

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## Monolithic Ceramic Capacitors (±20%) (Z5U Series)

Quantity SAVE

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
81543	MD10	10pF	50	3.5x2.0x3.0x2.5	*	\$ .10	\$ .065	\$ .045	\$ .035
332523	MOC10/100	10pF	100	4.2x3.0x4.2x2.5	*	.089	.065	.046	.035
332531	MOC15/100	15pF	100	4.2x3.0x4.2x2.5	*	.074	.053	.03	.027
81535	MD22	22pF	50	4.0x2.0x4.0x2.5	*	.105	.081	.05	.045
332541	MOC22/100	22pF	100	4.2x3.0x4.2x2.5	*	.10	.073	.051	.048
332559	MOC33/100	33pF	100	4.2x3.0x4.2x2.5	.25	.167	.122	.08	.076
332567	MOC47/100	47pF	100	4.2x3.0x4.2x2.5	.20	.118	.086	.06	.057
332574	MOC68/100	68pF	100	4.2x3.0x4.2x2.5	.30	.202	.144	.101	.076
81519	MD.001	.001μF	50	4.5x2.0x3.0x2.5	.20	.10	.078	.075	.068

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
25509	MD.01	.01μF	50	3.5x2.0x3.0x2.5	*	\$ .09	\$ .06	\$ .045	\$ .041
57623	MD.047	.047μF	50	2.5x2.5x3.0x2.5	*	.08	.07	.05	.039
544868	SR151C472KAA	.1μF	50	3.8x2.5x4.0x2.5	*	.094	.06	.034	.032
25525	MD.1	.1μF	50	3.4x2.2x3.6x2.5	*	.078	.067	.044	.039
25541	MD.22	.22μF	50	6.0x2.0x4.5x2.5	.21	.189	.133	.089	.066
544930	SR215E334MAA	.33μF	50	3.8x2.5x3.8x5.1	.20	.174	.111	.087	.081
138239	MD.33	.33μF	50	6.0x2.0x8.0x2.5	*	.178	.155	.122	.078
25560	MD.47	.47μF	50	4.5x2.5x4.5x2.5	.43	.39	.28	.21	.145
544956	SR305E105MAA	.1μF	50	3.8x2.5x3.8x5.1	.20	.19	.149	.141	.131
81510	MD1	.1μF	50	6.0x3.0x7.0x2.5	.53	.48	.355	.255	.233

### Other Manufacturers — Great Deals\*

81533	MD22	22pF	50	4.0x2.0x4.0	*	\$ .066	\$ .044	\$ .033	\$ .025
81517	MD.001	.001μF	50	4.5x2.0x3.0	*	.055	.041	.029	.026
138181	MD.0022	.0022μF	50	4.0x2.0x5.5	*	.058	.049	.039	.029
25507	MD.01	.01μF	50	3.5x2.0x3.0	*	.10	.067	.05	.045
57621	MD.047	.047μF	50	2.5x2.5x3.0	*	.072	.063	.045	.034

25523	MD.1	.1μF	50	6.0x2.0x4.0	*	\$ .07	\$ .06	\$ .04	\$ .035
25540	MD.22	.22μF	50	6.0x2.0x4.5	.20	.183	.166	.111	.10
138237	MD.33	.33μF	50	6.0x2.0x8.0	*	.16	.141	.113	.084
25558	MD.47	.47μF	50	4.5x2.5x4.5	*	.128	.109	.087	.065
81509	MD1	.1μF	50	6.0x3.0x7.0	.30	.23	.161	.149	.112

\* Capacitor dimensions and style may vary

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Quantity SAVE

## Motor Capacitors



- Operating temp.: -25°C to +85°C
- Insulation resistance: >300MΩ
- Metal or plastic shell and double welding sheet metal
- Quick connect

### Motor Running Capacitors

Part No.	Cross Ref. No.	Value	Volt. (V)	Dimensions D x H (mm)	Pricing			
					1	10	100	500
332806	MRC370V4	4μF	370	34 x 50	\$5.05	\$4.80	\$4.33	\$3.25
332814	MRC370V5	5μF	370	34 x 50	3.85	3.47	2.78	2.09
332822	MRC370V7R5	7.5μF	370	36 x 80	5.89	3.96	3.38	2.54
332831	MRC370V10	10μF	370	42 x 80	4.85	4.06	3.46	2.60
332865	MRC440V10	10μF	440	40 x 70	6.49	5.47	4.72	3.54
332849	MRC370V15	15μF	370	40 x 70	6.05	5.07	4.38	3.29
332873	MRC440V20	20μF	440	40 x 70	9.99	8.51	7.27	5.45
332857	MRC370V25	25μF	370	40 x 70	8.05	6.76	5.83	4.37

### Motor Starting Capacitors

Part No.	Cross Ref. No.	Value	Volt. (V)	Dimensions D x H (mm)	Pricing			
					1	10	100	500
332697	MSC125V21	21μF	125	37 x 70	\$2.29	\$2.06	\$1.64	\$1.49
332769	MSC250V21	21μF	250	37 x 70	2.95	2.80	2.66	2.00
332777	MSC250V30	30μF	250	37 x 70	3.09	2.94	2.90	2.18
332785	MSC250V53	53μF	250	46 x 86	3.85	3.25	3.02	2.67
332700	MSC125V124	124μF	125	37 x 70	2.35	2.11	1.69	1.66
332718	MSC125V161	161μF	125	37 x 70	2.55	2.37	2.06	1.78
332726	MSC125V189	189μF	125	37 x 70	2.69	2.50	2.17	2.07
332734	MSC125V216	216μF	125	37 x 86	3.25	2.93	2.64	2.38
332742	MSC125V270	270μF	125	37 x 86	3.59	3.41	3.24	2.67
332751	MSC125V590	590μF	125	46 x 111	6.15	5.84	5.55	4.73



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## Panasonic®

**NEW**

- Operating temperature range: -55°C to 125°C
- High moisture resistance
- Small size
- Capacitance tolerance: 2%, 5%
- Dissipation factor:  $\leq 0.6\%$  @ 1kHz

### ECH-U (C) Series (2% tolerance)

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Capacitance Value	Voltage	Size Code	Height (mm)	Pricing		
						1	10	100
858120	ECH-U1H823GC9R	.082µF	100	2820	2.8	*	\$ .408	\$ .367
858031	ECH-U1H104GC9R	.1µF	50	1913	2.8	.50	.449	.404

### ECH-U (C) Series (5% tolerance)

919455	ECH-U1H104JC9R	.1µF	50	1913	2.8	*	\$ .423	\$ .381
858066	ECH-U1H224JC9R	.22µF	50	2416	3.2	.87	.78	.70

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Size Code	Dim. (mm)	
	D	L
0805 (2012)	2	1.25
1206 (3216)	3.2	1.6
1210 (3225)	3.2	2.5
1913 (4833)	4.8	3.3
2416 (6041)	6	4.1
2820 (7150)	7.1	5

### ECH-U (X) Series (5% tolerance)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Capacitance Value	Voltage	Size Code	Height (mm)	Pricing		
						1	5	100
858091	ECH-U1H272JX5R	0.0027µF	50	0805	0.9	*	\$ .203	\$ .183
857944	ECH-U1C392JX5R	0.0039µF	16	0805	0.9	*	.189	.17
858007	ECH-U1H103JX5R	0.01µF	50	1206	1.1	*	.254	.229
857910	ECH-U1C123JX5R	0.012µF	16	1206	0.9	*	.231	.208
857979	ECH-U1C683JX5R	0.068µF	16	1210	1.5	*	.316	.284
919421	ECH-U1C104JX5R	0.1µF	16	1210	2.1	*	.378	.34

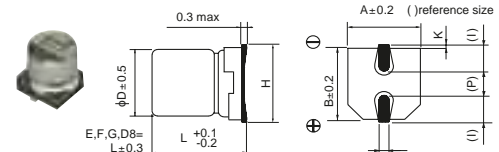
## Panasonic®

## Surface Mount Aluminum Electrolytic Capacitors

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Size Code	Dimensions (mm)					
	Dia.	Ht	W	I	Pad Width	Pad Spacing
A	3	5.4	3.3	1.5	0.55	0.6
B	4	5.4	4.3	1.8	0.65	1
C	5	5.4	5.3	2.2	0.65	1.5
D	6.3	5.4	6.6	2.6	0.65	1.8
D2	6.3	5.7	6.6	2.6	0.65	1.8

Size Code	Dimensions (mm)					
	Dia.	Ht	W	I	Pad Width	Pad Spacing
D8	6.3	7.7	6.6	2.6	0.65	1.8
E	8	6.2	8.3	3.4	0.65	2.2
F	8	10.2	8.3	3.4	0.9	3.1
G	10	10.2	10.3	3.5	0.9	4.6
H13	12.5	13.5	13.5	4.7	0.9	4.4



### VS Series Aluminum Electrolytic Capacitors, Surface Mount

- Lifetime: 2,000 hours @ 85°C
- High CV volumetric efficiency
- Capacitance tolerance:  $\pm 20\%$
- General purpose
- Operating temperature range: -40°C to 85°C

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
857451	ECE-V1HA010SR	B	50	1µF	★	Call	Call
857602	ECE-V1HS010SR	A	50	1µF	★	Call	Call
857821	ECE-V1VA475R	B	35	4.7µF	★	Call	Call
919148	ECE-V1CA100SR	B	16	10µF	★	Call	Call
857338	ECE-V1EA100SR	C	25	10µF	★	Call	Call
919332	ECE-V1HA100SP	D	50	10µF	★	Call	Call
857186	ECE-V1CA220SR	C	16	22µF	★	Call	Call
919236	ECE-V1CA470SP	D	16	47µF	★	Call	Call
857397	ECE-V1EA470UP	D2	25	47µF	★	Call	Call
857098	ECE-V0JA101SP	D	6.3	100µF	★	Call	Call
919201	ECE-V1CA101WP	D	16	100µF	★	Call	Call
857725	ECE-V1VA101P	G	35	100µF	★	Call	Call
919367	ECE-V1HA101UP	F	50	100µF	★	Call	Call
919295	ECE-V1EA221UP	F	25	220µF	★	Call	Call
919391	ECE-V1VA221UP	F	35	220µF	★	Call	Call
857514	ECE-V1HA221P	G	50	220µF	★	Call	Call
857266	ECE-V1CA471P	G	16	470µF	★	Call	Call
857426	ECE-V1EA471P	G	25	470µF	★	Call	Call
857127	ECE-V0JA102P	G	6.3	1000µF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### VS Bi-Polar Series Aluminum Electrolytic Capacitors, Surface Mount

- Lifetime: 1,000 hours @ 85°C
- High CV volumetric efficiency
- Capacitance tolerance:  $\pm 20\%$
- General purpose Bi-Polar
- Operating temperature range: -40°C to 85°C

**NEW**



Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
857661	ECE-V1VA100NP	D	35	10µF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

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Color Code Legend  
 New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

# SMT Electrolytic Capacitors

Color Code Legend			
New	Sale	Lower\$	QtySave



Lower \$\$\$

## Surface Mount Aluminum Electrolytic Capacitors

Quantity SAVE



Leakage Current (20°C) after 2 minutes ≤ .01CV or 3μA

Operating Temperature Range: -40°C to +85°C



Side View



Bottom View

Tape

Individual

Please order in increments of 10

Please order in increments of 10

Part No.	Cross Ref. No. †	Value (μF)	Voltage (V)	Dia. (mm)	Pricing		
					10	100	500
610802	UWX1H0R1MCL1GB R	0.1	50	4.0	\$.087	\$.074	\$.056
610811	UWX1H0R1MCL2GB R	0.1	50	3.0	.087	.074	.056
610829	UWX1HR22MCL1GB R	0.22	50	4.0	.087	.074	.056
610837	UWX1HR22MCL2GB R	0.22	50	3.0	.087	.074	.056
610845	UWX1HR33MCL1GB R	0.33	50	4.0	.087	.074	.056
610853	UWX1HR33MCL2GB R	0.33	50	3.0	.087	.074	.056
610861	UWX1HR47MCL1GB R	0.47	50	4.0	.087	.074	.056
610870	UWX1HR47MCL2GB R	0.47	50	3.0	.087	.074	.056
610888	UWX1V2R2MCL2GB R	2.2	35	4.0	.083	.071	.053
610896	UWX1V3R3MCL2GB R	3.3	35	4.0	.083	.071	.053
610909	UWX1V4R7MCL1GB R	4.7	35	4.0	.105	.095	.077

Part No.	Cross Ref. No. †	Value (μF)	Voltage (V)	Dia. (mm)	Pricing		
					10	100	500
610706	UWX0G220MCL2GB R	22	4	3.0	\$.081	\$.061	\$.055
610773	UWX1A220MCL1GB R	22	10	4.0	.083	.071	.053
610722	UWX0G330MCL1GB R	33	4	4.0	.081	.061	.055
610749	UWX0J330MCL1GB R	33	6.3	4.0	.092	.078	.059
610781	UWX1A330MCL1GB R	33	10	4.0	.092	.078	.059
610731	UWX0G470MCL1GB R	47	4	4.0	.087	.074	.056
610757	UWX0J470MCL1GB R	47	6.3	5.0	.087	.074	.056
610790	UWX1A470MCL1GB R	47	10	5.0	.092	.078	.059
610693	UWX0G101MCL1GB R	100	4	5.0	.123	.105	.079
610765	UWX1A101MCL1GB R	100	10	6.3	.092	.078	.059
610714	UWX0G221MCL1GB R	220	4	6.3	.105	.079	.071

Operating Temperature Range: -55°C to +105°C

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No. †	Value (μF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610431	UWT1H0R1MCL1GB R	0.1	50	4.0	*	\$.119	\$.095	\$.071
610546	UWT1HR22MCL1GB R	0.22	50	4.0	*	.119	.095	.071
610562	UWT1HR33MCL1GB R	0.33	50	4.0	*	.119	.095	.071
610589	UWT1HR47MCL1GB R	0.47	50	4.0	*	.094	.08	.06
610423	UWT1H010MCL2GB R	1	50	4.0	*	.116	.108	.098
608631	UUD1H010MCL1GS R	1	50	4.0	.29	.261	.209	.157
610634	UWT1V2R2MCL2GB R	2.2	35	4.0	*	.094	.08	.06
610491	UWT1H2R2MCL1GB R	2.2	50	4.0	*	.119	.095	.071
608665	UUD1H2R2MCL1GS R	2.2	50	4.0	.29	.261	.209	.157
610669	UWT1V3R3MCL2GB R	3.3	35	4.0	*	.109	.093	.07
608681	UUD1H3R3MCL1GS R	3.3	50	4.0	.29	.261	.209	.157
610407	UWT1E4R7MCL1GB R	4.7	25	4.0	*	.119	.095	.071
610685	UWT1V4R7MCL1GB R	4.7	35	4.0	*	.116	.093	.07
608788	UUD1V4R7MCL1GS R	4.7	35	4.0	.29	.261	.209	.157
610538	UWT1H4R7MCL1GB R	4.7	50	5.0	*	.153	.122	.092
608702	UUD1H4R7MCL1GS R	4.7	50	4.0	.32	.288	.23	.173
610263	UWT1C100MCL1GB R	10	16	4.0	*	.116	.108	.098
610343	UWT1E100MCL1GB R	10	25	5.0	.20	.164	.144	.096
610600	UWT1V100MCL1GB R	10	35	5.0	*	.133	.113	.085
608729	UUD1V100MCL1GS R	10	35	5.0	.32	.288	.23	.173
610458	UWT1H100MCL1GB R	10	50	6.3	.21	.189	.151	.113
608649	UUD1H100MCL1GS R	10	50	6.3	.35	.315	.252	.189
610108	UWTOG220MCL1GB R	22	4	4.0	*	.128	.102	.077
610167	UWTOJ220MCL1GB R	22	6.3	4.0	*	.116	.093	.07
610239	UWT1A220MCL1GB R	22	10	4.0	*	.153	.122	.092
608489	UUD1A220MCL1GS R	22	10	4.0	.43	.387	.31	.233
610298	UWT1C220MCL1GB R	22	16	5.0	.20	.18	.144	.108
610351	UWT1E220MCL1GB R	22	25	5.0	.21	.189	.151	.113
608577	UUD1E220MCL1GS R	22	25	22.0	.32	.288	.23	.173
610618	UWT1V220MCL1GB R	22	35	6.3	*	.138	.117	.088
608745	UUD1V220MCL1GS R	22	35	5.0	.32	.288	.23	.173
610474	UWT1H220MCL1GB R	22	50	6.3	.26	.234	.187	.168
610124	UWTOG330MCL1GB R	33	4	4.0	*	.119	.095	.071
610183	UWTOJ330MCL1GB R	33	6.3	4.0	*	.119	.095	.071
610247	UWT1A330MCL1GB R	33	10	5.0	*	.153	.122	.092
608497	UUD1A330MCL1GS R	33	10	5.0	.48	.432	.346	.26
610319	UWT1C330MCL1GB R	33	16	5.0	.21	.189	.151	.113
610360	UWT1E330MCL1GB R	33	25	6.3	.21	.189	.151	.113
608585	UUD1E330MCL1GS R	33	25	6.3	.52	.468	.374	.281
610642	UWT1V330MCL1GB R	33	35	6.3	.26	.173	.149	.11
608753	UUD1V330MCL1GS R	33	35	6.3	.35	.315	.252	.189
610511	UWT1H330MCL1GB R	33	50	6.3	.28	.252	.245	.238
610204	UWTOJ470MCL1GB R	47	6.3	5.0	*	.14	.112	.084
608446	UUD0J470MCL1GS R	47	6.3	5.0	.48	.432	.346	.26

Part No.	Cross Ref. No. †	Value (μF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610255	UWT1A470MCL1GB R	47	10	5.0	\$.21	\$.189	\$.151	\$.113
610335	UWT1C470MCL1GB R	47	16	6.3	.21	.189	.151	.113
608534	UUD1C470MCL1GS R	47	16	6.3	.52	.468	.374	.281
610386	UWT1H470MCL1GB R	47	25	6.3	.28	.252	.202	.168
608606	UUD1E470MCL1GS R	47	25	6.3	.52	.468	.374	.281
610677	UWT1V470MCL1GS R	47	35	6.3	.27	.243	.194	.146
608770	UUD1V470MCL1GS R	47	35	6.3	.35	.315	.252	.189
610520	UWT1H470MCL1GS R	47	50	6.3	.27	.243	.229	.214
608518	UUD1A680MCL1GS R	68	10	—	.52	.468	.374	.281
608542	UUD1C680MCL1GS R	68	16	6.3	.52	.468	.374	.281
608622	UUD1E680MCL1GS R	68	25	6.3	.52	.468	.374	.281
608796	UUD1V680MCL1GS R	68	35	6.3	.34	.306	.245	.184
608711	UUD1H680MCL1GS R	68	50	8.0	.53	.477	.382	.287
610095	UWTOG101MCL1GB R	100	4	6.3	*	.16	.128	.096
608403	UUD0J101MCL1GS R	100	6.3	6.3	.52	.468	.374	.281
610132	UWTOJ101MCL1GB R	100	6.3	6.3	*	.15	.12	.09
608462	UUD1A101MCL1GS R	100	10	—	.52	.468	.374	.281
610280	UWT1C101MCL1GB R	100	16	7.0	.23	.207	.166	.153
608569	UUD1E101MCL1GS R	100	25	6.3	.37	.333	.266	.20
608737	UUD1V101MCL1GS R	100	35	8.0	.53	.477	.382	.287
610466	UWT1H101MCL1GS R	100	50	8.0	.34	.306	.245	.232
608657	UUD1H101MCL1GS R	100	50	8.0	.53	.477	.382	.287
610116	UWTOG221MCL1GB R	220	4	6.3	.23	.207	.166	.125
610175	UWTOJ221MCL1GB R	220	6.3	6.3	.22	.198	.158	.119
608438	UUD0J221MCL1GS R	220	6.3	6.3	.52	.468	.374	.281
608526	UUD1C221MCL1GS R	220	16	6.3	.55	.497	.398	.299
610301	UWT1C221MCL1GS R	220	16	6.3	.29	.218	.207	.145
610626	UWT1V221MCL1GS R	220	35	8.0	.34	.272	.269	.242
610482	UWT1H221MCL1GS R	220	50	10.0	.45	.39	.33	.276
610191	UWTOJ331MCL1GS R	330	6.3	6.3	.22	.198	.158	.119
610327	UWT1C331MCL1GS R	330	16	8.0	.34	.306	.245	.219
610378	UWT1E331MCL1GS R	330	25	8.0	.34	.306	.245	.219
610651	UWT1V331MCL1GS R	330	35	10.0	.43	.30	.255	.241
608761	UUD1V331MCL1GS R	330	35	10.0	.57	.513	.41	.308
610212	UWTOJ471MCL1GS R	470	6.3	8.0	.26	.234	.187	.179
608500	UUD1A471MCL1GS R	470	10	8.0	.53	.477	.382	.287
610394	UWT1E471MCL1GS R	470	25	10.0	.45	.405	.324	.248
608614	UUD1E471MCL1GS R	470	25	10.0	.72	.65	.52	.39
610221	UUD0J681MCL1GS R	680	6.3	8.0	.26	.234	.187	.179
608454	UUD0J681MCL1GS R	680	6.3	8.0	.53	.477	.382	.287
608551	UUD1C681MCL1GS R	680	16	10.0	.72	.65	.518	.389
610141	UWTOJ102MCL1GS R	1000	6.3	8.0	.35	.263	.249	.22
608411	UUD0J102MCL1GS R	1000	6.3	8.0	.53	.477	.382	.287
608471	UUD1A102MCL1GS R	1000	10	10.0	.75	.68	.61	.303
610159	UWTOJ152MCL1GS R	1500	6.3	10.0	.34	.306	.277	.248
608420	UUD0J152MCL1GS R	1500	6.3	10.0	.72	.65	.518	.389

† Cross Reference: Panasonic: VS Series

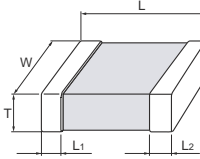
RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

**Panasonic®**

## Multilayer Ceramic Chip Capacitors

- Small in size and wide capacitance range
- Superior humidity characteristic and long life due to monolithic construction
- Excellent solderability and resistance to soldering heat
- Low self-inductance and excellent frequency characteristics

**NEW**

















Size	L(mm)	W(mm)	L1/L2(mm)
0402	1	0.5	0.15
0603	1.6	0.8	0.3
0805	2	1.25	0.5
1206	3.2	1.6	0.6

Temp. Coeff.	Range
NPO	-55°C to +125°C
X7R	-55°C to +125°C
X5R	-55°C to +85°C
F / Y5V	-30°C to +85°C






































### Size 0402

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
858306	ECJ-0EC1H100D 	NPO	10pF	50	±5pF	★	Call
858365	ECJ-0EC1H120J 	NPO	12pF	50	±5%	★	Call
858390	ECJ-0EC1H220J 	NPO	22pF	50	±5%	★	Call
858429	ECJ-0EC1H470J 	NPO	47pF	50	±5%	★	Call
858453	ECJ-0EC1H680J 	NPO	68pF	50	±5%	★	Call
858331	ECJ-0EC1H101J 	NPO	100pF	50	±5%	★	Call
858189	ECJ-0EB1H101K 	X7R	100pF	50	±10%	★	Call
858234	ECJ-0EB1H471K 	X7R	470pF	50	±10%	★	Call
858269	ECJ-0EB1H821K 	X7R	820pF	50	±10%	★	Call
858218	ECJ-0EB1H102K 	X7R	1000pF	50	±10%	★	Call
919543	ECJ-0EB1E103K 	X7R	.01µF	25	±10%	★	Call
858154	ECJ-0EB1C223K 	X7R	22,000pF	16	±10%	★	Call
919519	ECJ-0EB1A104K 	X5R	.1µF	10	±10%	★	Call
858488	ECJ-0EF1C104Z 	Y5V	.1µF	16	+80%/-20%	★	Call



★ Please call or visit our website for minimum order quantity and pricing.

### Size 0603

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
859368	ECJ-1VC2A101J 	NPO	100pF	100	±5%	★	Call
858904	ECJ-1VC1H020C 	NPO	2pF	50	±0.25pF	★	Call
858939	ECJ-1VC1H040C 	NPO	4pF	50	±0.25pF	★	Call
858963	ECJ-1VC1H060D 	NPO	6pF	50	±0.5pF	★	Call
858980	ECJ-1VC1H070D 	NPO	7pF	50	±0.5pF	★	Call
859000	ECJ-1VC1H120J 	NPO	12pF	50	±5%	★	Call
859077	ECJ-1VC1H180J 	NPO	18pF	50	±5%	★	Call
859131	ECJ-1VC1H270J 	NPO	27pF	50	±5%	★	Call
859181	ECJ-1VC1H330J 	NPO	33pF	50	±5%	★	Call
859237	ECJ-1VC1H470J 	NPO	47pF	50	±5%	★	Call
859261	ECJ-1VC1H560J 	NPO	56pF	50	±5%	★	Call
919981	ECJ-1VC1H680J 	NPO	68pF	50	±5%	★	Call
859317	ECJ-1VC1H820J 	NPO	82pF	50	±5%	★	Call
919922	ECJ-1VC1H101J 	NPO	100pF	50	±5%	★	Call
859042	ECJ-1VC1H151J 	NPO	150pF	50	±5%	★	Call
859106	ECJ-1VC1H221J 	NPO	220pF	50	±5%	★	Call
859165	ECJ-1VC1H271J 	NPO	270pF	50	±5%	★	Call
859202	ECJ-1VC1H331J 	NPO	330pF	50	±5%	★	Call
859341	ECJ-1VC1H821J 	NPO	820pF	50	±5%	★	Call
919957	ECJ-1VC1H102J 	NPO	1000pF	50	±5%	★	Call
858867	ECJ-1VB2D102K 	X7R	1000pF	200	±10%	★	Call
919754	ECJ-1VB1H102K 	X7R	1000pF	50	±10%	★	Call
919851	ECJ-1VB1H222K 	X7R	2200pF	50	±10%	★	Call
858744	ECJ-1VB1H272K 	X7R	2700pF	50	±10%	★	Call
858779	ECJ-1VB1H332K 	X7R	3300pF	50	±10%	★	Call
858808	ECJ-1VB1H392K 	X7R	3900pF	50	±10%	★	Call
858832	ECJ-1VB1H472K 	X7R	4700pF	50	±10%	★	Call
919789	ECJ-1VB1H103K 	X7R	10,000pF	50	±10%	★	Call
858710	ECJ-1VB1H153K 	X7R	15,000pF	50	±10%	★	Call
919893	ECJ-1VB1H333K 	X7R	.033µF	50	±10%	★	Call
919818	ECJ-1VB1H104K 	X7R	.1µF	50	±10%	★	Call
919720	ECJ-1VB1E103K 	X7R	10,000pF	25	±10%	★	Call
858681	ECJ-1VB1E473K 	X7R	47,000pF	25	±10%	★	Call
858656	ECJ-1VB1E104K 	X7R	.1µF	25	±10%	★	Call
858592	ECJ-1VB1C103K 	X7R	10,000pF	16	±10%	★	Call
858621	ECJ-1VB1C273K 	X7R	27,000pF	16	±10%	★	Call
919666	ECJ-1VB1C104K 	X7R	.1µF	16	±10%	★	Call














★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)























### Size 0603 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
919691	ECJ-1VB1C105K 	X5R	1µF	16	±10%	★	Call
858576	ECJ-1VB1A224K 	X5R	.33µF	10	±10%	★	Call
858517	ECJ-1VB0J474K 	X5R	.47µF	6.3	±10%	★	Call
858541	ECJ-1VB0J684K 	X5R	.68µF	6.3	±10%	★	Call
919578	ECJ-1VB0J105K 	X5R	1µF	6.3	±10%	★	Call
919607	ECJ-1VB0J225K 	X5R	2.2µF	6.3	±10%	★	Call
919631	ECJ-1VB0J475M 	X5R	4.7µF	6.3	±20%	★	Call
859456	ECJ-1VF1H103Z 	Y5V	10,000pF	50	+80%/-20%	★	Call
920077	ECJ-1VF1H104Z 	Y5V	.1µF	50	+80%/-20%	★	Call
920042	ECJ-1VF1E104Z 	Y5V	.1µF	25	+80%/-20%	★	Call
859392	ECJ-1VF1C224Z 	Y5V	.22µF	16	+80%/-20%	★	Call
859421	ECJ-1VF1C474Z 	Y5V	.47µF	16	+80%/-20%	★	Call
920018	ECJ-1VF1A105Z 	Y5V	1µF	10	+80%/-20%	★	Call



★ Please call or visit our website for minimum order quantity and pricing.

### Size 0805

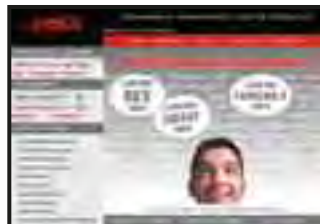
Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
859641	ECJ-2VC1H220J 	NPO	22pF	50	±5%	★	Call
859739	ECJ-2VC1H470J 	NPO	47pF	50	±5%	★	Call
859763	ECJ-2VC1H820J 	NPO	82pF	50	±5%	★	Call
920270	ECJ-2VC1H101J 	NPO	100pF	50	±5%	★	Call
859616	ECJ-2VC1H181J 	NPO	180pF	50	±5%	★	Call
859675	ECJ-2VC1H221J 	NPO	220pF	50	±5%	★	Call
859704	ECJ-2VC1H271J 	NPO	270pF	50	±5%	★	Call
859579	ECJ-2VB1H472K 	X7R	4700pF	50	±10%	★	Call
920237	ECJ-2VB1H103K 	X7R	10,000pF	50	±10%	★	Call
859510	ECJ-2VB1H223K 	X7R	22,000pF	50	±10%	★	Call
859544	ECJ-2VB1H333K 	X7R	33,000pF	50	±10%	★	Call
920341	ECJ-2VB1H104K 	X7R	.1µF	50	±10%	★	Call
920202	ECJ-2VB1E104K 	X7R	.1µF	25	±10%	★	Call
920173	ECJ-2VB1C104K 	X7R	.1µF	16	±10%	★	Call
859499	ECJ-2VB1C224K 	X7R	.22µF	16	±10%	★	Call
920131	ECJ-2FB1E475M 	X5R	4.7µF	25	±20%	★	Call
920106	ECJ-2FB1C475K 	X5R	4.7µF	16	±10%	★	Call
859827	ECJ-2VF1H104Z 	Y5V	.1µF	50	+80%/-20%	★	Call
920317	ECJ-2VF1H224Z 	Y5V	.22µF	50	+80%/-20%	★	Call
859798	ECJ-2VF1E104Z 	Y5V	.1µF	25	+80%/-20%	★	Call
920376	ECJ-2YF1C225Z 	Y5V	2.2µF	16	+80%/-20%	★	Call
920157	ECJ-2FF1A106Z 	F	10µF	10	+80%/-20%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

### Size 1206

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
920430	ECJ-3YB1E106M 	X5R	10µF	25	±20%	★	Call
920405	ECJ-3YB0J475K 	X5R	4.7µF	6.3	±10%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

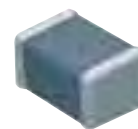


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## Multilayer Ceramic Chip Capacitors





















Size	0402 Case Size	0603 Case Size	0805 Case Size
Length (L)	1.0mm ±0.10mm (0.40" ±0.004")	1.60 ±0.15 (0.063" ±0.006")	2.01mm ±0.20mm (0.79" ±0.008")
Width (W)	0.50mm ±0.10mm (0.020" ±0.004")	0.81mm ±0.15mm (0.032" ±0.006")	1.25mm ±0.20mm (0.049" ±0.008")
Thickness (T)	0.50mm ±0.05mm (0.20" ±0.006")	0.80mm ±0.10mm (0.030" ±0.006")	1.25mm ±0.20mm (0.020" ±0.010")
Size	1206 Case Size	1210 Case Size	1812 Case Size
Length (L)	3.2mm ±0.20mm (0.126" ±0.008")	3.2mm ±0.20mm (0.126" ±0.008")	4.5mm ±0.30mm (0.177" ±0.012")
Width (W)	1.60mm ±0.20mm (0.063" ±0.008")	2.5mm ±0.20mm (0.098" ±0.008")	3.2mm ±0.20mm (0.126" ±0.008")
Thickness (T)	0.50mm ±0.25mm (0.020" ±0.010")	Refer to Datasheet	Refer to Datasheet



























Temperature Coefficient :	COG (NP0) = -55°C to +125°C
	X7R = -55°C to +125°C
	X5R = -55°C to +85°C
	Y5V = -30°C to +85°C

### Size 0402

These products are sold on Tape and Reel


Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
765661	04025A4R7CAT2A 	NP0	4.7pF	50	0.25pF	★	Call
765679	04025A6R8CAT2A 	NP0	6.8pF	50	0.25pF	★	Call
734821	04025A100JAT2A 	NP0	10pF	50	5%	★	Call
765628	04025A150JAT2A 	NP0	15pF	50	5%	★	Call
765636	04025A180JAT2A 	NP0	18pF	50	5%	★	Call
765644	04025A220JAT2A 	NP0	22pF	50	5%	★	Call
734848	04025A270JAT2A 	NP0	27pF	50	5%	★	Call
765652	04025A330JAT2A 	NP0	33pF	50	5%	★	Call
734856	04025A470JAT2A 	NP0	47pF	50	5%	★	Call
734864	04025A680JAT2A 	NP0	68pF	50	5%	★	Call
765610	04025A101KAT2A 	NP0	100pF	50	10%	★	Call
734830	04025A151JAT2A 	NP0	150pF	25	5%	★	Call
734813	04025A221JAT2A 	NP0	220pF	25	5%	★	Call
734901	0402YD473KAT2A 	X5R	0.047µF	16	10%	★	Call
734910	0402ZD104KAT2A 	X5R	0.1µF	10	10%	★	Call
734881	0402YC102KAT2A 	X7R	1000pF	16	10%	★	Call
734872	04025C102JAT2A 	X7R	1000pF	50	5%	★	Call
765687	04025C152KAT2A 	X7R	1500pF	50	10%	★	Call
765695	04025C332KAT2A 	X7R	3300pF	50	10%	★	Call
734899	0402YC223KAT2A 	X7R	0.022µF	16	10%	★	Call


### Size 0603

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
766031	06035A0R5CAT2A 	NP0	0.5pF	50	0.25pF	★	Call
735111	06035A1R0CAT2A 	NP0	1pF	50	0.25pF	★	Call
735120	06035A1R8CAT2A 	NP0	1.8pF	50	0.25pF	★	Call
735171	06035A2R2CAT2A 	NP0	2.2pF	50	0.25pF	★	Call
766129	06035A2R7CAT2A 	NP0	2.7pF	50	0.25pF	★	Call
765775	06031A2R7CAT2A 	NP0	2.7pF	100	0.25pF	★	Call
735189	06035A3R3CAT2A 	NP0	3.3pF	50	0.25pF	★	Call
765804	06031A3R3CAT2A 	NP0	3.3pF	100	0.25pF	★	Call
735197	06035A3R9CAT2A 	NP0	3.9pF	50	0.25pF	★	Call
766153	06035A4R0CAT2A 	NP0	4pF	50	0.25pF	★	Call
735234	06035A4R7CAT2A 	NP0	4.7pF	50	0.25pF	★	Call
735251	06035A5R6CAT2A 	NP0	5.6pF	50	0.25pF	★	Call
766188	06035A5R6DAT2A 	NP0	5.6pF	50	0.5pF	★	Call
766196	06035A6R0CAT2A 	NP0	6pF	50	0.25pF	★	Call
766209	06035A6R0DAT2A 	NP0	6pF	50	0.5pF	★	Call
735277	06035A6R8CAT2A 	NP0	6.8pF	50	0.25pF	★	Call
765821	06031A6R8DAT2A 	NP0	6.8pF	100	0.5pF	★	Call
765839	06031A8R0CAT2A 	NP0	8pF	100	0.25pF	★	Call
735285	06035A8R2CAT2A 	NP0	8.2pF	50	0.25pF	★	Call
735040	06035A100CAT2A 	NP0	10pF	50	0.25pF	★	Call
735058	06035A100DAT2A 	NP0	10pF	50	0.5pF	★	Call
735066	06035A100KAT2A 	NP0	10pF	50	10%	★	Call
734928	06031A150JAT2A 	NP0	15pF	100	5%	★	Call
765741	06031A180JAT2A 	NP0	18pF	100	5%	★	Call
735138	06035A200JAT2A	NP0	20pF	50	5%	★	Call
765935	06033A220JAT2A	NP0	22pF	25	5%	★	Call
735146	06035A220KAT2A	NP0	22pF	50	10%	★	Call
765759	06031A220KAT2A	NP0	22pF	100	10%	★	Call
735154	06035A270FAT2A	NP0	27pF	50	1%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

















































 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

### Size 0603 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
735162	06035A270JAT2A 	NP0	27pF	50	5%	★	Call
766137	06035A330KAT2A 	NP0	33pF	50	10%	★	Call
765791	06031A390JAT2A 	NP0	39pF	100	5%	★	Call
735200	06035A470KAT2A 	NP0	47pF	50	10%	★	Call
734944	06031A470JAT2A 	NP0	47pF	100	5%	★	Call
735242	06035A560JAT2A 	NP0	56pF	50	5%	★	Call
765812	06031A560JAT2A 	NP0	56pF	100	5%	★	Call
735269	06035A680JAT2A 	NP0	68pF	50	5%	★	Call
766321	0603YA820KAT2A 	NP0	82pF	16	10%	★	Call
734979	06033A101JAT2A 	NP0	100pF	25	5%	★	Call
765919	06033A101KAT2A 	NP0	100pF	25	5%	★	Call
735074	06035A101JAT2A 	NP0	100pF	50	5%	★	Call
735082	06035A101KAT2A 	NP0	100pF	50	10%	★	Call
765724	06031A101KAT2A 	NP0	100pF	100	10%	★	Call
766057	06035A151KAT2A 	NP0	150pF	50	10%	★	Call
765732	06031A151JAT2A 	NP0	150pF	100	5%	★	Call
735103	06035A181JAT2A 	NP0	180pF	50	5%	★	Call
734936	06031A221JAT2A 	NP0	220pF	100	5%	★	Call
735218	06035A471JAT2A 	NP0	470pF	50	5%	★	Call
735226	06035A471KAT2A 	NP0	470pF	50	10%	★	Call
734987	06033A102JAT2A 	NP0	1000pF	25	5%	★	Call
735091	06035A102JAT2A 	NP0	1000pF	50	5%	★	Call
735648	0603YD474KAT2A 	X5R	47µF	16	10%	★	Call
735517	06036D105KAT2A 	X5R	1µF	6.3	10%	★	Call
735630	0603YD105KAT2A 	X5R	1µF	16	10%	★	Call
735525	0603YC101KAT2A 	X7R	100pF	16	10%	★	Call
735293	06035C101KAT2A 	X7R	100pF	50	10%	★	Call
765847	06031C101KAT2A 	X7R	100pF	100	10%	★	Call
765978	06033C221MAT2A 	X7R	220pF	25	20%	★	Call
735381	06035C221KAT2A 	X7R	220pF	50	10%	★	Call
735429	06035C331KAT2A 	X7R	330pF	50	10%	★	Call
765880	06031C331KAT2A 	X7R	330pF	100	10%	★	Call
734961	06031C471KAT2A 	X7R	470pF	100	10%	★	Call
735496	06035C681KAT2A 	X7R	680pF	50	10%	★	Call
765898	06031C681JAT2A 	X7R	680pF	100	5%	★	Call
765901	06031C681KAT2A 	X7R	680pF	100	10%	★	Call
766348	0603ZC102KAT2A 	X7R	1000pF	10	10%	★	Call
735533	0603YC102KAT2A 	X7R	1000pF	16	10%	★	Call
734995	06033C102KAT2A 	X7R	1000pF	25	10%	★	Call
735306	06035C102JAT2A 	X7R	1000pF	50	5%	★	Call
735314	06035C102MAT2A 	X7R	1000pF	50	20%	★	Call
765855	06031C102JAT2A 	X7R	1000pF	100	5%	★	Call
735357	06035C122KAT2A 	X7R	1200pF	50	0%	★	Call
735365	06035C152KAT2A 	X7R	1500pF	50	10%	★	Call
734952	06031C152KAT2A 	X7R	1500pF	100	10%	★	Call
766233	06035C182KAT2A 	X7R	1800pF	50	10%	★	Call
735584	0603YC222KAT2A 	X7R	2200pF	16	10%	★	Call
765986	06033C222KAT2A 	X7R	2200pF	25	10%	★	Call
735390	06035C222JAT2A	X7R	2200pF	50	5%	★	Call
735402	06035C222KAT2A	X7R	2200pF	50	10%	★	Call
766250	06035C222MAT2A	X7R	2200pF	50	20%	★	Call
766268	06035C272KAT2A	X7R	2700pF	50	10%	★	Call
766006	06033C332KAT2A	X7R	3300pF	25	10%	★	Call



Multilayer Ceramic Chip Capacitors (Continued)

Size 0603 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
735437	06035C332JAT2A	X7R	3300pF	50	5%		Call
735445	06035C332KAT2A	X7R	3300pF	50	10%		Call
735461	06035C392KAT2A	X7R	3900pF	50	10%		Call
766022	06033C472KAT2A	X7R	4700pF	25	10%		Call
735470	06035C472JAT2A	X7R	4700pF	50	5%		Call
735488	06035C472KAT2A	X7R	4700pF	50	10%		Call
766284	06035C562KAT2A	X7R	5600pF	50	10%		Call
766292	06035C682KAT2A	X7R	6800pF	50	10%		Call
766305	06035C822KAT2A	X7R	8200pF	50	10%		Call
766356	0603ZC103MAT2A	X7R	.01µF	10	20%		Call
735541	0603YC103KAT2A	X7R	.01µF	16	10%		Call
735007	06033C103KAT2A	X7R	.01µF	25	10%		Call
735015	06033C103MAT2A	X7R	.01µF	25	20%		Call
735322	06035C103JAT2A	X7R	.01µF	50	5%		Call
735331	06035C103KAT4A	X7R	.01µF	50	10%		Call
735349	06035C103MAT2A	X7R	.01µF	50	20%		Call
765863	06031C103JAT2A	X7R	.01µF	100	5%		Call
765960	06033C153JAT2A	X7R	.015µF	25	5%		Call
735373	06035C153JAT2A	X7R	.015µF	50	5%		Call
735592	0603YC223KAT2A	X7R	.022µF	16	10%		Call
765994	06033C223JAT2A	X7R	.022µF	25	5%		Call
735023	06033C223KAT2A	X7R	.022µF	25	10%		Call
735605	0603YC333KAT2A	X7R	.033µF	16	10%		Call
766014	06033C333JAT2A	X7R	.033µF	25	5%		Call
735031	06033C333KAT2A	X7R	.033µF	25	10%		Call
735453	06035C333KAT2A	X7R	.033µF	50	10%		Call
735613	0603YC473KAT2A	X7R	.047µF	16	10%		Call
735621	0603YC683KAT2A	X7R	.068µF	16	10%		Call
735550	0603YC104JAT2A	X7R	.1µF	16	5%		Call
735568	0603YC104KAT4A	X7R	.1µF	16	10%		Call
735576	0603YC104MAT2A	X7R	.1µF	16	20%		Call
735664	0603ZC224KAT2A	X7R	.22µF	10	10%		Call
735656	0603YG104JAT2A	Y5V	.1µF	16	+80/-20%		Call
735509	06035G104JAT2A	Y5V	.1µF	50	+80/-20%		Call

Please call or visit our website for minimum order quantity and pricing.

Size 0805

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
766701	0805A1R0CAT2A	NPO	1pF	50	.25pF		Call
766735	0805A2R2CAT2A	NPO	2.2pF	50	.25pF		Call
766751	0805A3R3CAT2A	NPO	3.3pF	50	.25pF		Call
766516	0805A1R3DAT2A	NPO	3.3pF	100	.5pF		Call
736114	0805A6R8CAT2A	NPO	6.8pF	50	.25pF		Call
766760	0805A6R8DAT2A	NPO	6.8pF	50	.5pF		Call
766541	0805A6R8CAT2A	NPO	6.8pF	100	.25pF		Call
766786	0805A8R2DAT2A	NPO	8.2pF	50	.5pF		Call
766655	0805A100DAT2A	NPO	10pF	50	.5pF		Call
735867	0805A100JAT2A	NPO	10pF	50	5%		Call
735875	0805A100KAT2A	NPO	10pF	50	10%		Call
766381	0805A100KAT2A	NPO	10pF	100	10%		Call
766671	0805A120JAT2A	NPO	12pF	50	5%		Call
766399	0805A120JAT2A	NPO	12pF	100	5%		Call
735939	0805A150JAT2A	NPO	15pF	50	5%		Call
735955	0805A180JAT2A	NPO	18pF	50	5%		Call
766428	0805A180JAT2A	NPO	18pF	100	5%		Call
735963	0805A200JAT2A	NPO	20pF	50	5%		Call
735971	0805A220JAT2A	NPO	22pF	50	5%		Call
735980	0805A220KAT2A	NPO	22pF	50	10%		Call
735699	0805A1220JAT2A	NPO	22pF	100	5%		Call
766436	0805A1220KAT2A	NPO	22pF	100	10%		Call
736018	0805A270JAT2A	NPO	27pF	50	5%		Call
766727	0805A270KAT2A	NPO	27pF	50	10%		Call

Please call or visit our website for minimum order quantity and pricing.

This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

Size 0805 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
766452	0805A1270JAT2A	NPO	27pF	100	5%		Call
736026	0805A3300JAT2A	NPO	30pF	50	5%		Call
736034	0805A330JAT2A	NPO	33pF	50	5%		Call
735701	0805A1330JAT2A	NPO	33pF	100	5%		Call
735710	0805A1330KAT2A	NPO	33pF	100	10%		Call
736042	0805A390JAT2A	NPO	39pF	50	5%		Call
766495	0805A1390JAT2A	NPO	39pF	100	5%		Call
736069	0805A470JAT2A	NPO	47pF	50	5%		Call
736077	0805A470KAT2A	NPO	47pF	50	10%		Call
766524	0805A1470KAT2A	NPO	47pF	100	10%		Call
736085	0805A560JAT2A	NPO	56pF	50	5%		Call
735736	0805A1A560JAT2A	NPO	56pF	100	5%		Call
736106	0805A5680JAT2A	NPO	68pF	50	5%		Call
766663	0805A101JAT4A	NPO	100pF	50	5%		Call
735883	0805A101KAT2A	NPO	100pF	50	10%		Call
735681	0805A101KAT2A	NPO	100pF	100	10%		Call
735912	0805A121JAT2A	NPO	120pF	50	5%		Call
735947	0805A151JAT2A	NPO	150pF	50	5%		Call
766401	0805A151JAT2A	NPO	150pF	100	5%		Call
766410	0805A151KAT2A	NPO	150pF	100	10%		Call
766698	0805A181JAT2A	NPO	180pF	50	5%		Call
735998	0805A221JAT2A	NPO	220pF	50	5%		Call
736000	0805A221KAT2A	NPO	220pF	50	10%		Call
766719	0805A221JAT4A	NPO	220pF	50	5%		Call
766479	0805A1271JAT2A	NPO	270pF	100	5%		Call
735728	0805A1331JAT2A	NPO	330pF	100	5%		Call
736051	0805A391JAT2A	NPO	390pF	50	5%		Call
766508	0805A1391JAT2A	NPO	390pF	100	5%		Call
736093	0805A561JAT2A	NPO	560pF	50	5%		Call
736122	0805A821JAT2A	NPO	820pF	50	5%		Call
735904	0805A102KAT2A	NPO	1000pF	50	10%		Call
735921	0805A122JAT2A	NPO	1200pF	50	5%		Call
766680	0805A152JAT2A	NPO	1500pF	50	5%		Call
735795	0805A322JAT2A	NPO	2200pF	25	5%		Call
736131	08055C101KAT2A	X7R	100pF	50	10%		Call
766794	08055C101MAT2A	X7R	100pF	50	20%		Call
736229	08055C221KAT2A	X7R	220pF	50	10%		Call
736261	08055C271KAT2A	X7R	270pF	50	10%		Call
736296	08055C471JAT2A	X7R	470pF	50	5%		Call
736309	08055C471KAT2A	X7R	470pF	50	10%		Call
766591	08051C471KAT2A	X7R	470pF	100	10%		Call
736333	08055C681KAT2A	X7R	680pF	50	10%		Call
766874	0805YC102KAT2A	X7R	1000pF	16	10%		Call
736149	08055C102JAT2A	X7R	1000pF	50	5%		Call
766807	08055C102KAT4A	X7R	1000pF	50	10%		Call
736157	08055C102MAT2A	X7R	1000pF	50	20%		Call
735744	08051C102KAT2A	X7R	1000pF	100	10%		Call
766575	08051C152KAT2A	X7R	1500pF	100	10%		Call
736237	08055C222JAT2A	X7R	2200pF	50	5%		Call
736245	08055C222KAT2A	X7R	2200pF	50	10%		Call
766823	08055C222MAT2A	X7R	2200pF	50	20%		Call
735761	08051C222JAT2A	X7R	2200pF	100	5%		Call
735787	08052C222KAT2A	X7R	2200pF	200	10%		Call
736270	08055C332KAT2A	X7R	3300pF	50	10%		Call
766840	08055C392KAT2A	X7R	3900pF	50	10%		Call
736317	08055C472JAT2A	X7R	4700pF	50	5%		Call
735779	08051C472KAT2A	X7R	4700pF	100	10%		Call
736341	08055C682KAT2A	X7R	6800pF	50	10%		Call
766882	0805YC103KAT2A	X7R	.01µF	16	10%		Call
735816	08053C103KAT2A	X7R	.01µF	25	10%		Call
736165	08055C103JAT2A	X7R	.01µF	50	5%		Call
736173	08055C103KAT4A	X7R	.01µF	50	10%		Call
736181	08055C103MAT2A	X7R	.01µF	50	20%		Call

Please call or visit our website for minimum order quantity and pricing.

RoHS compliant product
 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.
[Details on page 1.](#)



## Multilayer Ceramic Chip Capacitors (Continued)

For more AVX Ceramic Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)

## Size 0805 (Continued) These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
735752	08051C103JAT2A <b>R</b>	X7R	.01µF	100	5%	★	Call
766815	08055C153KAT2A <b>R</b>	X7R	.015µF	50	10%	★	Call
736384	0805YC223KAT2A <b>R</b>	X7R	.022µF	16	10%	★	Call
736253	08055C223JAT2A <b>R</b>	X7R	.022µF	50	5%	★	Call
766831	08055C223KAT4A <b>R</b>	X7R	.022µF	50	10%	★	Call
766583	08051C333KAT2A <b>R</b>	X7R	.033µF	100	10%	★	Call
736325	08055C473JAT2A <b>R</b>	X7R	.047µF	50	5%	★	Call
766604	08051C473KAT2A <b>R</b>	X7R	.047µF	100	10%	★	Call
736376	0805YC104KAT2A <b>R</b>	X7R	.1µF	16	10%	★	Call
766891	0805YC104MAT2A <b>R</b>	X7R	.1µF	16	20%	★	Call
735824	08053C104JAT2A <b>R</b>	X7R	.1µF	25	5%	★	Call
735832	08053C104KAT2A <b>R</b>	X7R	.1µF	25	10%	★	Call
735841	08053C104MAT2A <b>R</b>	X7R	.1µF	25	20%	★	Call
736190	08055C104JAT2A <b>R</b>	X7R	.1µF	50	5%	★	Call
736202	08055C104KAT4A <b>R</b>	X7R	.1µF	50	10%	★	Call
736211	08055C104MAT2A <b>R</b>	X7R	.1µF	50	20%	★	Call
766567	08051C104KAT2A <b>R</b>	X7R	.1µF	100	10%	★	Call
766621	08053C184KAT2A <b>R</b>	X7R	.18µF	25	10%	★	Call
766639	08053C224MAT2A <b>R</b>	X7R	.22µF	25	20%	★	Call
736392	0805YC474JAT2A <b>R</b>	X7R	.47µF	16	5%	★	Call
736413	0805ZC105MAT2A <b>R</b>	X7R	.1µF	10	20%	★	Call
766647	08053G104ZAT2A <b>R</b>	Y5V	.1µF	25	+80/-20%	★	Call
766866	08055G104ZAT2A <b>R</b>	Y5V	.1µF	50	+80/-20%	★	Call
766903	0805G105ZAT2A/2K REELS	Y5V	.1µF	16	+80/-20%	★	Call
735859	08053G105ZAT2A <b>R</b>	Y5V	.1µF	25	+80/-20%	★	Call
766911	0805ZG225ZAT2A <b>R</b>	Y5V	2.2µF	10	+80/-20%	★	Call
736405	0805YG225ZAT2A <b>R</b>	Y5V	2.2µF	16	+80/-20%	★	Call
736448	0805ZG475ZAT2A <b>R</b>	Y5V	4.7µF	10	+80/-20%	★	Call
766858	08055E103MAT2A <b>R</b>	Z5U	.01µF	50	20%	★	Call
736350	08055E104MAT2A <b>R</b>	Z5U	.1µF	50	20%	★	Call

## Size 1206 Multilayer Ceramic Chips

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
740121	12061A100KAT2A <b>R</b>	NPO	10pF	100	10%	★	Call
740130	12061A150JAT2A <b>R</b>	NPO	15pF	100	5%	★	Call
766938	12061A180JAT2A <b>R</b>	NPO	18pF	100	5%	★	Call
740164	12061A270JAT2A <b>R</b>	NPO	27pF	100	5%	★	Call
740181	12061A390JAT2A <b>R</b>	NPO	39pF	100	5%	★	Call
740201	12061A680JAT2A <b>R</b>	NPO	68pF	100	5%	★	Call
740332	12065A101JAT2A <b>R</b>	NPO	100pF	50	5%	★	Call
740148	12061A151JAT2A <b>R</b>	NPO	150pF	100	5%	★	Call
740156	12061A221JAT2A <b>R</b>	NPO	220pF	100	5%	★	Call
740172	12061A271JAT2A <b>R</b>	NPO	270pF	100	5%	★	Call
740421	12065A471JAT2A <b>R</b>	NPO	470pF	50	5%	★	Call
740199	12061A471JAT2A <b>R</b>	NPO	470pF	100	5%	★	Call
740210	12061A821JAT2A <b>R</b>	NPO	820pF	100	5%	★	Call
766920	12061A152KAT2A <b>R</b>	NPO	1500pF	100	10%	★	Call
740359	12065A182JAT2A <b>R</b>	NPO	1800pF	50	5%	★	Call
740383	12065A222KAT2A <b>R</b>	NPO	2200pF	50	10%	★	Call
766946	12061A222KAT2A <b>R</b>	NPO	2200pF	100	10%	★	Call
740391	12065A272JAT2A <b>R</b>	NPO	2700pF	50	5%	★	Call
740412	12065A332JAT2A <b>R</b>	NPO	3300pF	50	5%	★	Call
740631	12066D106KAT2A <b>R</b>	X5R	10µF	6.3	10%	★	Call
766997	1206GC471KAT1A <b>R</b>	X7R	470pF	2000	10%	★	Call
740439	12065C102KAT2A <b>R</b>	X7R	1000pF	50	10%	★	Call
740228	12061C102JAT2A <b>R</b>	X7R	1000pF	100	5%	★	Call
740501	12065C222KAT2A <b>R</b>	X7R	2200pF	50	10%	★	Call
740535	12065C472KAT2A <b>R</b>	X7R	4700pF	50	10%	★	Call
740578	12065C682JAT2A <b>R</b>	X7R	6800pF	50	5%	★	Call
740455	12065C103KAT2A <b>R</b>	X7R	.01µF	50	10%	★	Call
740236	12061C103JAT2A <b>R</b>	X7R	.01µF	100	5%	★	Call
740279	12062C103KAT2A <b>R</b>	X7R	.01µF	200	10%	★	Call
740519	12065C223KAT2A <b>R</b>	X7R	.022µF	50	10%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Size 1206 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
740287	12062C223KAT2A <b>R</b>	X7R	.022µF	200	10%	★	Call
740527	12065C333KAT2A <b>R</b>	X7R	.033µF	50	10%	★	Call
740551	12065C473KAT2A <b>R</b>	X7R	.047µF	50	10%	★	Call
766989	12065C473MAT2A <b>R</b>	X7R	.047µF	50	20%	★	Call
740295	12063C104KAT2A <b>R</b>	X7R	.1µF	25	10%	★	Call
740463	12065C104JAT2A <b>R</b>	X7R	.1µF	50	5%	★	Call
740471	12065C104KAT4A <b>R</b>	X7R	.1µF	50	10%	★	Call
740480	12065C104MAT2A <b>R</b>	X7R	.1µF	50	20%	★	Call
766954	12061C104MAT2A <b>R</b>	X7R	.1µF	100	20%	★	Call
766962	12065C154KAT2A <b>R</b>	X7R	.15µF	50	10%	★	Call
740308	12063C224KAT2A <b>R</b>	X7R	.22µF	25	10%	★	Call
766971	12065C334MAT2A <b>R</b>	X7R	.33µF	50	20%	★	Call
740560	12065C474KAT2A <b>R</b>	X7R	.47µF	50	10%	★	Call
740691	1206YC684KAT2A <b>R</b>	X7R	.68µF	16	10%	★	Call
740658	1206YC105KAT2A <b>R</b>	X7R	1µF	16	10%	★	Call
740666	1206YC105KAT2A/3K REEL	X7R	1µF	16	10%	★	Call
740674	1206YC105MAT2A <b>R</b>	X7R	1µF	16	20%	★	Call
740720	1206ZC225KAT2A <b>R</b>	X7R	2.2µF	10	10%	★	Call
740324	12063G105ZAT2A <b>R</b>	Y5V	1µF	25	+80/-20%	★	Call
740711	1206YG225ZAT2A <b>R</b>	Y5V	2.2µF	16	+80/-20%	★	Call
740738	1206ZG106ZAT2A <b>R</b>	Y5V	10µF	10	+80/-20%	★	Call
740594	12065E104MAT2A <b>R</b>	Z5U	.1µF	50	20%	★	Call
740607	12065E104ZAT2A <b>R</b>	Z5U	.1µF	50	+80/-20%	★	Call
740615	12065E224MAT2A <b>R</b>	Z5U	.22µF	50	20%	★	Call
740623	12065E334MAT2A <b>R</b>	Z5U	.33µF	50	20%	★	Call

## Size 1210

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
740771	12101C224KAT2A <b>R</b>	X7R	.22µF	100	10%	★	Call
740789	12101C474KAT2A <b>R</b>	X7R	.47µF	100	10%	★	Call
740826	1210YC475KAT2A <b>R</b>	X7R	4.7µF	16	10%	★	Call
740800	12105E474MAT2A <b>R</b>	Z5U	.47µF	50	20%	★	Call

## Size 1812

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
742899	18125C224KAT2A <b>R</b>	X7R	.22µF	50	10%	★	Call
742901	18125C334KAT2A <b>R</b>	X7R	.33µF	50	10%	★	Call
742944	18125E474MAT2A <b>R</b>	Z5U	.47µF	50	20%	★	Call
742936	18125E105ZAT2A <b>R</b>	Z5U	1µF	50	+80/-20%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

## JAMECO ValuePro 8mm (.315") Thru-Hole Ceramic Trimmer Capacitors

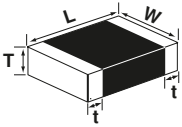
- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40-200 g-cm
- Operating temperature range: -55°C~+85°C
- Insulation resistance: 10MΩ minimum @ 250VDC
- Q Factor @ 1MHz: 134820/32839/134818: >300
- 32855/94449/94466: >200



Part No.	Capacitance Range (pF)	Color Codes	Pricing			
			1	10	100	1000
134820	3.5-13.0 <b>R</b>	Ivory	\$ .49	\$ .39	\$ .39	\$ .36
32839	4.0-34.0 <b>R</b>	Yellow	1.15	.98	.90	.68
32855	6.0-70.0 <b>R</b>	None	.94	.79	.73	.69
94449	8.5-100 <b>R</b>	Purple	1.05	.94	.81	.77
94466	8.5-120 <b>R</b>	None	1.25	.98	.81	.74
Other Manufacturers — Great Deals						
134818	3.5-13.0	Ivory	\$ .62	\$ .55	\$ .45	\$ .335

Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!



## Multilayer Ceramic Chip Capacitors

**Quantity SAVE**

**SALE**

X7R Series (±10%)

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

JAMECO ValuePro 0402 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
543751	560pF	50	\$ .078	\$ .064	\$ .061	<b>(\$ .058)</b>
543734	1000pF	50	.022	.019	.015	<b>(.011)</b>
543769	.01µF	50	.054	.049	.039	<b>(.029)</b>
Other Manufacturers — Great Deals						
646485	330pF	50	\$ .208	\$ .116	\$ .063	<b>(\$ .047)</b>
646493	390pF	50	.069	.039	.021	<b>(.016)</b>
646506	470pF	50	.231	.21	.168	<b>(.126)</b>
646514	560pF	50	.077	.07	.056	<b>(.042)</b>
646522	680pF	50	.077	.07	.056	<b>(.042)</b>
646531	820pF	50	.077	.07	.056	<b>(.042)</b>
646549	1000pF	50	.069	.039	.021	<b>(.014)</b>
646557	1200pF	50	.077	.07	.056	<b>(.042)</b>
646565	1500pF	50	.234	.198	.158	<b>(.119)</b>
646573	1800pF	50	.234	.198	.158	<b>(.119)</b>
646581	2200pF	50	.198	.168	.135	<b>(.101)</b>
646590	2700pF	50	.234	.198	.158	<b>(.119)</b>
646602	3300pF	50	.077	.07	.056	<b>(.042)</b>
646611	3900pF	50	.234	.198	.158	<b>(.119)</b>
646629	4700pF	50	.077	.07	.056	<b>(.042)</b>
646637	5600pF	50	.154	.139	.111	<b>(.083)</b>
646645	6800pF	50	.139	.077	.04	<b>(.03)</b>
646653	8200pF	50	.139	.077	.04	<b>(.03)</b>
646661	.01µF	16	.069	.039	.02	<b>(.015)</b>
646670	.012µF	16	.069	.039	.02	<b>(.015)</b>
646688	.015µF	16	.069	.039	.02	<b>(.015)</b>
646696	.018µF	16	.056	.032	.022	<b>(.03)</b>
646709	.022µF	16	.069	.039	.02	<b>(.015)</b>

JAMECO ValuePro 0603 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544083	470pF	16	\$ .095	\$ .06	\$ .042	<b>(\$ .026)</b>
544041	1000pF	50	.063	.04	.02	<b>(.017)</b>
543831	1000pF	100	.074	.044	.026	<b>(.018)</b>
543857	2200pF	100	.14	.084	.034	<b>(.02)</b>
543865	3300pF	100	.135	.115	.092	<b>(.069)</b>
543873	4700pF	25	.107	.084	.048	<b>(.034)</b>
544059	.01µF	50	.079	.047	.024	<b>(.018)</b>
543849	.01µF	100	.237	.156	.105	<b>(.073)</b>
544067	.015µF	50	.053	.048	.038	<b>(.029)</b>
544075	.022µF	50	.097	.087	.07	<b>(.053)</b>
543881	.047µF	25	.088	.079	.063	<b>(.047)</b>
544091	.1µF	16	.067	.04	.02	<b>(.014)</b>
Other Manufacturers — Great Deals						
649483	1000pF	50	\$ .056	\$ .031	\$ .016	<b>(\$ .012)</b>
649491	1200pF	50	.069	.039	.02	<b>(.015)</b>
649504	1500pF	50	.069	.039	.02	<b>(.015)</b>
649512	1800pF	50	.069	.039	.02	<b>(.015)</b>
649521	2200pF	50	.069	.039	.02	<b>(.015)</b>
649539	2700pF	50	.069	.039	.02	<b>(.015)</b>
649547	3300pF	50	.139	.077	.042	<b>(.032)</b>
649555	3900pF	50	.057	.039	.02	<b>(.015)</b>
649563	4700pF	50	.118	.065	.036	<b>(.027)</b>
649571	5600pF	50	.069	.039	.02	<b>(.015)</b>
649580	6800pF	50	.101	.074	.04	<b>(.03)</b>
649598	8200pF	50	.069	.039	.02	<b>(.015)</b>

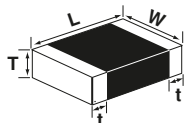
JAMECO ValuePro 0603 SMT (Cont'd)		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
649601	.01µF	50	\$ .056	\$ .031	\$ .016	<b>(\$ .012)</b>
649619	.012µF	50	.069	.039	.02	<b>(.015)</b>
649627	.015µF	50	.069	.039	.02	<b>(.015)</b>
649635	.018µF	50	.069	.039	.02	<b>(.015)</b>
649643	.022µF	50	.069	.039	.02	<b>(.015)</b>
649651	.027µF	50	.069	.039	.02	<b>(.015)</b>
649660	.033µF	50	.069	.039	.02	<b>(.015)</b>
649678	.039µF	50	.069	.039	.02	<b>(.015)</b>

JAMECO ValuePro 0805 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544323	1000pF	50	\$ .024	\$ .017	\$ .015	<b>(\$ .014)</b>
544235	1000pF	200	.19	.17	.137	<b>(.103)</b>
544201	2200pF	100	.074	.043	.026	<b>(.018)</b>
544227	3300pF	100	.07	.063	.05	<b>(.038)</b>
544382	4700pF	50	.057	.051	.041	<b>(.031)</b>
87313	.01µF	50	.048	.029	.017	<b>(.01)</b>
544198	.01µF	100	.07	.063	.05	<b>(.038)</b>
544331	.01µF	50	.057	.051	.041	<b>(.031)</b>
544219	.022µF	100	.032	.029	.023	<b>(.017)</b>
544366	.033µF	50	.096	.086	.069	<b>(.052)</b>
544374	.039µF	50	.089	.053	.031	<b>(.023)</b>
544391	.047µF	50	.07	.063	.05	<b>(.038)</b>
544403	.068µF	50	.07	.063	.05	<b>(.038)</b>
544462	.1µF	16	.206	.185	.148	<b>(.071)</b>
87372	.1µF	25	.09	.06	.05	<b>(.04)</b>
544340	.1µF	50	.087	.051	.03	<b>(.021)</b>
544438	.22µF	16	.104	.094	.075	<b>(.056)</b>
544243	.22µF	25	.15	.135	.108	<b>(.081)</b>
544358	.22µF	50	.12	.108	.086	<b>(.065)</b>
544446	.33µF	16	.296	.177	.102	<b>(.071)</b>
544454	.47µF	16	.296	.177	.102	<b>(.071)</b>
544471	1µF	10	.31	.279	.223	<b>(.167)</b>

Other Manufacturers — Great Deals						
650257	3300pF	50	\$ .063	\$ .039	\$ .02	<b>(\$ .015)</b>
650265	3900pF	50	.063	.048	.041	<b>(.031)</b>
650273	4700pF	50	.063	.039	.02	<b>(.015)</b>
650281	5600pF	50	.139	.077	.041	<b>(.031)</b>
650290	6800pF	50	.139	.077	.041	<b>(.031)</b>
650302	8200pF	50	.146	.082	.044	<b>(.033)</b>
650311	.012µF	50	.069	.039	.02	<b>(.015)</b>
650329	.015µF	50	.107	.077	.041	<b>(.031)</b>
650337	.018µF	50	.139	.077	.041	<b>(.031)</b>
650345	.022µF	50	.069	.039	.02	<b>(.015)</b>
650353	.027µF	50	.069	.039	.02	<b>(.015)</b>
650361	.033µF	50	.095	.077	.041	<b>(.031)</b>
650370	.039µF	50	.069	.039	.02	<b>(.015)</b>
650388	.047µF	50	.069	.039	.02	<b>(.015)</b>
650396	.056µF	50	.069	.039	.02	<b>(.015)</b>
650409	.068µF	50	.069	.039	.02	<b>(.015)</b>
650417	.082µF	50	.069	.039	.02	<b>(.015)</b>
87370	.1µF	25	.036	.022	.018	<b>(.014)</b>
650425	.1µF	50	.069	.039	.02	<b>(.015)</b>
650441	.22µF	16	.104	.058	.031	<b>(.023)</b>
650450	.33µF	16	.164	.089	.057	<b>(.043)</b>
650468	.47µF	16	.164	.089	.057	<b>(.043)</b>
650476	1µF	10	.296	.224	.146	<b>(.11)</b>

JAMECO ValuePro 1206 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544585	1000pF	100	\$ .022	\$ .02	\$ .018	<b>(\$ .016)</b>
544614	2000pF	100	.029	.026	.021	<b>(.016)</b>
544649	4700pF	100	.126	.113	.09	<b>(.068)</b>
544593	.01µF	100	.027	.024	.022	<b>(.02)</b>
544622	.022µF	100	.126	.113	.09	<b>(.068)</b>
544631	.033µF	100	.108	.097	.078	<b>(.059)</b>
544657	.047µF	100	.126	.113	.09	<b>(.068)</b>
544702	.1µF	50	.09	.081	.065	<b>(.049)</b>
87390	.1µF	50	.084	.055	.038	<b>(.037)</b>
544606	.1µF	100	.167	.15	.12	<b>(.09)</b>
544711	.22µF	50	.088	.079	.063	<b>(.047)</b>
544729	.33µF	50	.285	.257	.206	<b>(.155)</b>
544673	.47µF	25	.45	.27	.159	<b>(.119)</b>
544665	1µF	25	.296	.177	.102	<b>(.077)</b>

Other Manufacturers — Great Deals						
651137	1000pF	50	\$ .126	\$ .106	\$ .059	(\$ .044)
651145	1200pF	50	.191	.106	.059	(.044)
651153	1500pF	50	.191	.106	.059	(.044)
651161	1800pF	50	.191	.106	.059	(.044)
651170	2200pF	50	.139	.106	.059	(.044)
651188	3300pF	50	.126	.106	.059	(.044)
651196	3900pF	50	.191	.106	.059	(.044)
651209	4700pF	50	.126	.111	.075	(.056)
651217	5600pF	50	.191	.106	.059	(.044)
651225	6800pF	50	.113	.089	.059	(.044)
651233	8200pF	50	.191	.106	.059	(.044)
87329	⊕ .01µF	50	.081	.054	.034	(.024)
651241	.012µF	50	.201	.112	.061	(.046)
651250	.015µF	50	.201	.112	.061	(.046)
651268	.018µF	50	.201	.112	.061	(.046)
651276	.022µF	50	.145	.112	.061	(.046)
651284	.027µF	50	.145	.112	.061	(.046)
651292	.033µF	50	.126	.107	.061	(.046)
651305	.039µF	50	.201	.112	.061	(.046)
651313	.047µF	50	.126	.107	.061	(.046)
651321	.056µF	50	.221	.124	.067	(.05)
651330	.068µF	50	.221	.124	.067	(.05)
651348	.082µF	50	.221	.124	.067	(.05)
87388	.1µF	50	.049	.029	.019	(.016)
651356	.12µF	50	.208	.116	.063	(.047)
651364	.15µF	50	.208	.116	.063	(.047)
651372	.18µF	50	.208	.116	.063	(.047)
651381	.22µF	50	.208	.116	.063	(.047)
651399	.27µF	50	.164	.089	.055	(.041)
651401	.33µF	50	.275	.239	.131	(.098)
651410	.47µF	50	.205	.111	.073	(.055)
651436	1µF	16	.359	.221	.144	(.108)
651428	1µF	25	.182	.105	.073	(.066)
651444	2.2µF	10	.495	.268	.174	(.131)



## Multilayer Ceramic Chip Capacitors (Cont.)

Quantity SAVE

SALE

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

### X7R Series (±10%)

JAMECO ValuePro		1210 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544770	1µF	50		\$ .19	\$ .171	\$ .137	\$ .103	
544761	1µF	100		.19	.171	.137	.103	
544788	.22µF	50		.262	.236	.189	.142	
544796	.47µF	50		.189	.17	.136	.102	
Other Manufacturers — Great Deals								
651612	1µF	50		\$ .202	\$ .167	\$ .141	\$ .106	
651639	.22µF	50		.243	.136	.088	.066	
651647	.33µF	50		.414	.247	.16	.12	
651655	.47µF	50		.45	.247	.16	.12	
651663	1µF	50		.51	.39	.26	.195	
651671	2.2µF	25		1.21	.79	.427	.32	
651680	4.7µF	16		1.04	.78	.472	.353	
651701	4.7µF	25		1.18	.66	.36	.27	
651698	10µF	10		1.09	.60	.264	.198	

JAMECO ValuePro		1812 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544817	1µF	50		\$ .48	\$ .43	\$ .344	\$ .258	

### COG Series (±5%)

JAMECO ValuePro		0603 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
543785	10pF	100		\$ .14	\$ .084	\$ .048	\$ .034	
543806	22pF	100		.029	.026	.023	.021	
543814	33pF	100		.074	.044	.026	.018	
543793	100pF	100		.011	.009	.008	.007	
543988	270pF	50		.078	.054	.031	.022	
544008	330pF	50		.111	.088	.051	.036	
543822	680pF	100		.035	.032	.026	.02	

JAMECO ValuePro		0805 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544121	10pF	100		\$ .07	\$ .063	\$ .05	\$ .038	
544155	15pF	100		.114	.088	.051	.036	
544286	270pF	50		.129	.116	.062	.043	
544294	330pF	50		.074	.043	.026	.018	
544307	470pF	50		.088	.053	.031	.021	
544315	680pF	50		.128	.088	.051	.036	
544260	1000pF	50		.15	.135	.108	.081	
544147	1000pF	100		.18	.153	.122	.092	
544278	2200pF	50		.20	.18	.144	.108	

JAMECO ValuePro		1206 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544551	330pF	100		\$ .097	\$ .082	\$ .066	\$ .05	
544681	1000pF	50		.206	.185	.148	.111	
544690	2200pF	50		.055	.05	.04	.03	

### NPO Temp Series (±10%)

JAMECO ValuePro		0402 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
543726	100pF	50		\$ .198	\$ .168	\$ .134	\$ .101	
543742	220pF	50		.198	.168	.134	.101	

\* Prepackaged; please order in quantity increments shown

### X5R Series (±10%)

JAMECO ValuePro		0603 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544104	1µF	10		\$ .047	\$ .042	\$ .034	\$ .026	
Other Manufacturers — Great Deals								
649686	1µF	25		\$ .185	\$ .135	\$ .074	\$ .056	
649707	.22µF	16		.24	.155	.084	.063	
649694	.22µF	25		.259	.174	.094	.071	
649715	.33µF	16		.118	.065	.036	.029	
649723	.47µF	16		.118	.065	.036	.029	
649758	1µF	6.3		.315	.232	.125	.094	
649740	1µF	10		.038	.027	.018	.014	
649731	1µF	16		.139	.077	.042	.032	
649766	2.2µF	6.3		.24	.155	.084	.063	
649774	4.7µF	6.3		.405	.309	.177	.088	

JAMECO ValuePro		0805 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544489	2.2µF	10		\$ .82	\$ .70	\$ .56	\$ .42	
544420	4.7µF	6.3		.382	.344	.275	.206	
544411	10µF	6.3		.169	.152	.149	.146	
Other Manufacturers — Great Deals								
650484	.33µF	25		\$ .467	\$ .29	\$ .158	\$ .119	
650492	.47µF	25		.42	.306	.115	.086	
650530	1µF	10		.243	.155	.084	.063	
650513	1µF	16		.174	.097	.052	.039	
650505	1µF	25		.59	.425	.231	.173	
650548	2.2µF	10		.231	.155	.084	.063	
650521	2.2µF	16		.513	.349	.189	.142	
650556	3.3µF	10		.321	.232	.126	.095	
650572	4.7µF	6.3		.225	.119	.08	.06	
650564	4.7µF	10		.321	.232	.126	.095	
650581	10µF	6.3		.414	.221	.144	.111	

JAMECO ValuePro		1206 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544753	4.7µF	10		\$ .114	\$ .103	\$ .082	\$ .064	
Other Manufacturers — Great Deals								
651479	2.2µF	16		\$ .41	\$ .349	\$ .279	\$ .209	
651452	2.2µF	25		.328	.179	.117	.088	
651508	4.7µF	10		.414	.352	.282	.212	
651487	4.7µF	16		1.10	.94	.75	.56	
651461	4.7µF	25		.455	.387	.31	.233	
651532	10µF	6.3		.84	.71	.57	.428	
651516	10µF	10		.495	.421	.337	.253	
651495	10µF	16		1.49	1.27	1.02	.77	
651524	22µF	6.3		1.02	.87	.70	.525	

JAMECO ValuePro		1210 SMT		Pricing per each*				
Part No.	Capacitance	Volt.		10	100	500	1000	
544809	10µF	10		\$ 1.46	\$ 1.31	\$ 1.05	\$ .79	
Other Manufacturers — Great Deals								
651727	4.7µF	16		\$ .66	\$ .36	\$ .232	\$ .174	
651786	10µF	10		1.46	.83	.45	.338	
651735	10µF	16		.98	.54	.35	.263	
651719	10µF	25		.91	.51	.336	.252	
651751	22µF	6.3		2.71	2.15	.83	.62	
651794	22µF	10		2.29	1.29	.70	.53	
651743	22µF	16		1.78	1.49	.93	.70	
651760	47µF	6.3		1.67	1.42	1.13	.85	
651778	100µF	6.3		5.06	2.87	1.56	1.17	

### X5R Series (±10%) (Continued)

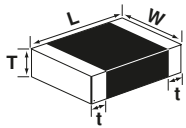
1812 SMT			Pricing per each <sup>*</sup>			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
651831	1µF	50	\$1.13	\$1.01	\$ .56	\$ .42
651840	10µF	25	2.42	1.97	1.77	1.58
651858	22µF	10	2.36	1.68	1.42	1.07
651866	47µF	6.3	5.94	3.56	3.20	2.88
651874	100µF	6.3	2.19	2.01	1.81	1.63

### NPO Temp Series (±5%)

0402 SMT			Pricing per each <sup>*</sup>			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
645984	1pF	50	\$ .077	\$ .046	\$ .026	\$ .018
645992	2.2pF	50	.231	.133	.079	.055
646004	3.3pF	50	.231	.133	.079	.055
646012	3.9pF	50	.231	.133	.105	.073
646021	4.7pF	50	.231	.133	.105	.073
646039	5.6pF	50	.009	.008	.007	.006
646047	6.8pF	50	.231	.133	.105	.073
646055	8.2pF	50	.009	.008	.007	.006
646063	10pF	50	.077	.07	.056	.042
646071	15pF	50	.077	.07	.056	.042
646080	18pF	50	.077	.07	.056	.042
646098	22pF	50	.077	.07	.056	.042
646101	27pF	50	.077	.07	.056	.042
646119	33pF	50	.077	.07	.056	.042
646127	39pF	50	.077	.07	.056	.042
646135	47pF	50	.077	.07	.056	.042
646143	56pF	50	.077	.07	.056	.042
646151	68pF	50	.077	.07	.056	.042
646160	82pF	50	.231	.137	.079	.059
646178	100pF	50	.193	.174	.139	.104
646186	120pF	50	.077	.07	.056	.042
646194	150pF	50	.046	.041	.033	.025
646207	180pF	50	.077	.07	.056	.042
646215	220pF	50	.231	.208	.166	.125

JAMECO ValuePro		0603 SMT	
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# SMT Ceramic Capacitors



## Multilayer Ceramic Chip Capacitors (Cont.)

**Quantity SAVE**

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

### NPO Temp Series (±5%) (Continued)

0603 SMT (Continued)			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
646821	18pF	50	\$.12	\$.065	\$.02	\$.015
646830	22pF	50	.069	.045	.02	.015
646848	27pF	50	.069	.039	.02	.015
646856	33pF	50	.104	.058	.031	.023
646864	39pF	50	.12	.065	.04	.03
646872	47pF	50	.069	.039	.02	.015
646881	56pF	50	.131	.074	.04	.03
646899	68pF	50	.139	.077	.04	.03
646901	82pF	50	.131	.074	.04	.03
646910	100pF	50	.077	.046	.026	.02
646928	120pF	50	.154	.091	.053	.04
646936	150pF	50	.077	.046	.026	.02
646944	180pF	50	.077	.046	.026	.019
646952	220pF	50	.154	.091	.053	.04
646961	270pF	50	.077	.046	.026	.02
646979	330pF	50	.154	.091	.053	.04
646987	390pF	50	.132	.077	.041	.031
646995	470pF	50	.069	.039	.02	.015
647007	560pF	50	.139	.077	.04	.03
647015	680pF	50	.139	.077	.04	.03
647023	820pF	50	.174	.148	.118	.089
647031	1000pF	50	.069	.059	.046	.035

JAMECO ValuePro 0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
544171	47pF	100	\$.07	\$.063	\$.05	\$.038
544251	100pF	50	.085	.077	.062	.047
544139	100pF	100	.07	.063	.05	.038
544163	220pF	100	.10	.09	.072	.054
544180	470pF	100	.10	.09	.05	.038
<b>Other Manufacturers — Great Deals</b>						
649900	1pF	50	\$.063	\$.048	\$.041	\$.031
649918	2.2pF	50	.146	.082	.044	.033
649926	3.3pF	50	.146	.082	.044	.033
649934	3.9pF	50	.146	.082	.044	.033
649942	4.7pF	50	.113	.082	.044	.033
649951	5.6pF	50	.113	.082	.044	.033
649969	6.8pF	50	.113	.082	.044	.033
649977	8.2pF	50	.113	.082	.044	.033
649985	10pF	50	.063	.039	.02	.015
649993	15pF	50	.063	.039	.02	.015
650003	18pF	50	.063	.039	.02	.015
650011	22pF	50	.07	.046	.026	.018
650020	27pF	50	.063	.039	.02	.015
650038	33pF	50	.07	.04	.02	.01
650046	39pF	50	.063	.039	.02	.015
650054	47pF	50	.063	.039	.02	.015
650062	56pF	50	.063	.039	.02	.015
650071	68pF	50	.063	.039	.02	.015
650089	82pF	50	.077	.046	.026	.018
650097	100pF	50	.063	.039	.02	.015
650100	120pF	50	.063	.039	.02	.015
650118	150pF	50	.063	.039	.02	.015
650126	180pF	50	.104	.058	.031	.023
650134	220pF	50	.063	.039	.02	.015
650142	270pF	50	.107	.077	.041	.031
650151	330pF	50	.063	.039	.02	.015
650169	390pF	50	.092	.055	.032	.022
650177	470pF	50	.083	.047	.025	.019
650185	560pF	50	.104	.058	.031	.023

### NPO Temp Series (±5%) (Continued)

JAMECO ValuePro 1206 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
544497	10pF	100	\$.152	\$.137	\$.11	\$.083
544526	15pF	100	.221	.198	.159	.055
544534	22pF	100	.097	.082	.066	.05
544542	33pF	100	.05	.043	.034	.026
544569	47pF	100	.097	.082	.066	.05
544500	100pF	100	.152	.137	.11	.083
544577	680pF	100	.138	.117	.094	.071
544518	1000pF	100	.138	.117	.094	.071
<b>Other Manufacturers — Great Deals</b>						
650716	1pF	50	\$.221	\$.124	\$.067	\$.05
650724	2.2pF	50	.221	.124	.067	.05
650732	3.3pF	50	.221	.124	.067	.05
650741	3.9pF	50	.221	.124	.067	.05
650759	4.7pF	50	.221	.124	.067	.05
650767	5.6pF	50	.221	.124	.067	.05
650775	6.8pF	50	.221	.124	.067	.05
650783	8.2pF	50	.132	.107	.067	.05
650791	10pF	50	.158	.131	.08	.06
650804	15pF	50	.17	.143	.08	.06
650812	18pF	50	.267	.151	.083	.062
650821	22pF	50	.158	.13	.069	.052
650839	27pF	50	.267	.151	.083	.062
650847	33pF	50	.158	.131	.08	.06
650855	39pF	50	.17	.143	.08	.06
650863	47pF	50	.158	.131	.08	.06
650871	56pF	50	.221	.151	.083	.062
650880	68pF	50	.17	.143	.08	.06
650898	82pF	50	.267	.151	.083	.062
650901	100pF	50	.158	.131	.08	.06
650919	120pF	50	.233	.147	.08	.06
650927	150pF	50	.233	.182	.098	.074
650935	180pF	50	.221	.153	.101	.076
650943	220pF	50	.158	.131	.098	.074
650951	270pF	50	.328	.185	.101	.076
650960	330pF	50	.158	.131	.097	.073
650978	390pF	50	.328	.185	.101	.076
650986	470pF	50	.214	.179	.097	.073
650994	560pF	50	.291	.185	.101	.076
651006	680pF	50	.233	.18	.097	.073
651014	820pF	50	.328	.185	.101	.076
651022	1000pF	50	.214	.179	.097	.073
651031	1200pF	50	.351	.198	.108	.081
651049	1500pF	50	.351	.19	.108	.081
651057	1800pF	50	.422	.239	.13	.098
651065	2200pF	50	.239	.208	.114	.086
651073	2700pF	50	.088	.071	.063	.047
651081	3300pF	50	.365	.251	.138	.104
651090	3900pF	50	.374	.212	.115	.086
651102	4700pF	50	.374	.251	.138	.104
651111	5600pF	50	.374	.251	.139	.104
651129	.01μF	25	.348	.19	.154	.116

### Y5V Series (+80%, -20%)

JAMECO ValuePro 0603 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
543890	1μF	25	\$.152	\$.091	\$.043	\$.029
544112	1μF	10	.062	.036	.026	.048

### Y5V Series (+80%, -20%)

0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
650599	.022μF	50	\$.077	\$.069	\$.062	\$.056
650601	.022μF	50	.077	.07	.056	.042
650610	.047μF	50	.077	.07	.056	.042
650644	.10μF	25	.077	.07	.056	.042
650628	.10μF	50	.077	.07	.056	.042
650652	.22μF	25	.116	.104	.084	.063
650636	.22μF	50	.116	.104	.084	.063
650661	.47μF	25	.154	.139	.111	.083
650687	1μF	16	.238	.214	.171	.129
650679	1μF	25	.231	.208	.166	.125
650695	2.2μF	16	.501	.451	.361	.271
650708	4.7μF	10	.65	.59	.468	.351


JAMECO ValuePro 1206 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
544737	1μF	50	\$.243	\$.219	\$.175	\$.131
544745	4.7μF	16	.56	.504	.403	.302
<b>Other Manufacturers — Great Deals</b>						
651541	.10μF	50	\$.231	\$.208	\$.166	\$.125
651559	.22μF	50	.382	.213	.115	.086
651567	.47μF	50	.347	.312	.25	.187
651575	1μF	50	.27	.243	.194	.146
651583	2.2μF	25	.385	.347	.277	.208
651591	4.7μF	16	.62	.56	.446	.335
651604	10μF	10	.077	.07	.056	.042

1210 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
651815	10μF	16	\$.208	\$.187	\$.150	\$.112
651823	22μF	10	2.09	1.88	1.50	1.13

### Y5V Series (±20%)

0603 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
649782	.01μF	50	\$.063	\$.054	\$.043	\$.032
649838	.1μF	25	.077	.07	.042	.056
649846	.15μF	25	.154	.139	.111	.083
649854	.22μF	25	.077	.07	.056	.042
649791	.22μF	50	.077	.07	.056	.042
649862	.33μF	25	.154	.139	.111	.083
649803	.33μF	50	.077	.07	.056	.042
649871	.47μF	16	.077	.07	.056	.042
649811	.47μF	50	.077	.07	.056	.042
649820	.68μF	50	.077	.07	.056	.042
649897	1μF	10	.077	.07	.056	.042
649889	1μF	16	.077	.07	.056	.042

### X5V Series (+80%, -20%)

JAMECO		0402 SMT		Pricing per each*			
ValuePro							
Part No.	Capacitance	Volt.	10	100	500	1000	
543777	 .1μF	16	\$ .163	\$ .139	\$ .111	\$ .111	



## Resin Molded Chip Tantalum Electrolytic Capacitors (±10%)

Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0
E (7343-43)	7.3	4.3	4.1	1.3	2.4	1.0



Jameco		6.3V SMT		Pricing per each*			
ValuePro							
Part No.	Capacitance	Case Size	10	100	500	1000	
597311	10µF	A	\$ .423	\$ .338	\$ .254	\$ .229	
545027	10µF	A	.223	.201	.161	.113	

Jameco		10V SMT		Pricing per each*			
ValuePro			Case				
Part No.	Capacitance	Size	10	100	500	1000	
545078	4.7µF	A	\$ .109	\$ .098	\$ .078	\$ .066	
597329	4.7µF	A	.31	.277	.222	.168	
545086	6.8µF	A	.261	.222	.178	.134	
597302	10µF	A	.26	.236	.201	.151	
545035	10µF	A	.139	.125	.10	.075	
545115	15µF	A	.264	.238	.19	.169	
545203	47µF	B	.407	.387	.365	.35	
545297	100µF	C	1.13	1.06	.85	.77	
545422	100µF	D	1.73	1.56	1.00	.75	
545473	150µF	D	1.53	1.38	1.00	.83	
597441	220µF	D	3.65	2.88	2.18	1.94	
545369	220µF	D	1.53	1.37	.86	.85	

\* Prepackaged: please order in quantity increments shown

Jameco		16V SMT		Pricing per each*			
ValuePro		Case Size					
Part No.	Capacitance		10	100	500	1000	
544981	1µF	A	\$ .198	\$ .168	\$ .134	\$ .101	
545043	2.2µF	A	.20	.18	.144	.108	
545051	3.3µF	A	.25	.24	.21	.18	
545174	4.7µF	B	.194	.165	.132	.114	
597337	10µF	B	.45	.409	.327	.245	
545140	10µF	B	.136	.122	.098	.078	
545211	10µF	C	.266	.263	.21	.158	
597345	22µF	B	.42	.378	.302	.285	
545166	22µF	B	.208	.207	.206	.205	
545300	22µF	C	.49	.46	.43	.415	
597353	47µF	C	1.22	1.09	.99	.74	
545271	47µF	C	.486	.437	.28	.21	
597417	47µF	D	1.26	1.14	.85	.68	
545393	47µF	D	.50	.45	.29	.258	
597425	100µF	E	3.25	2.92	2.34	1.75	
545449	100µF	D	1.90	1.81	1.69	1.58	

Jameco ValuePro		20V SMT		Pricing per each*			
Part No.	Capacitance	Case Size	10	100	500	1000	
544999	0.1µF	A	\$ .192	\$ .173	\$ .138	\$ .104	
545060	3.3µF	A	.231	.208	.166	.125	
545220	10µF	C	.256	.23	.184	.142	
597409	33µF	D	1.70	1.36	1.02	.92	
545377	33µF	D	.54	.49	.44	.40	
545553	68µF	D	4.20	2.73	1.58	1.19	

JAMECO		25V SMT		Pricing per each*			
ValuePro			Case				
Part No.	Capacitance	Size	10	100	500	1000	
545001	1µF	A	\$ .208	\$ .18	\$ .144	\$ .108	
545289	10µF	C	.50	.45	.30	.284	
597396	22µF	D	1.49	1.26	1.01	.76	
545342	22µF	D	.50	.45	.36	.27	
545406	47µF	D	2.45	2.35	2.12	1.91	
545545	33µF	D	4.67	3.50	3.15	2.84	

JAMECO		35V SMT		Pricing per each*			
ValuePro			Case Size				
Part No.	Capacitance			10	100	500	1000
544964	0.1µF	A		\$ .254	\$ .229	\$ .172	\$ .145
597290	1µF	A		.20	.18	.139	.131
545131	1µF	B		.288	.245	.196	.147
545158	2.2µF	B		.405	.39	.382	.374
545254	2.2µF	C		.306	.275	.22	.182
545262	3.3µF	C		.254	.228	.183	.168
545385	4.7µF	D		.53	.48	.437	.43
545238	10µF	C		.469	.422	.38	.343
545326	10µF	D		.486	.437	.368	.299
597388	15µF	D		1.49	1.26	1.01	.76
545334	15µF	D		.535	.482	.33	.328
597433	22µF	D		3.28	2.95	2.36	1.77
545351	22µF	D		1.32	1.17	.95	.85

JAMECO		50V SMT		Pricing per each*			
ValuePro			Case				
Part No.	Capacitance	Size	10	100	500	1000	
544972	0.1µF	A	\$ .342	\$ .308	\$ .246	\$ .185	
545414	6.8µF	D	1.46	1.31	1.05	.79	

## Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

• Case sizes and photos are same as above

10V SMT			Pricing per each*			
Part No.	Capacitance	Case Size	10	100	500	1000
Other Manufacturers — Great Deals						
87020	⊕ 10μF	B	\$ .203	\$ .15	\$ .136	\$ .102
87118	⊕ 100μF	D	.80	.76	.73	.69

Jameco ValuePro		16V SMT		Pricing per each*			
Part No.	Capacitance	Case Size	10	100	500	1000	
545246	10µF	C	\$ .223	\$ .201	\$ .161	\$ .136	
Other Manufacturers — Great Deals							
87038	10µF	C	\$ .214	\$ .208	\$ .119	\$ .111	

www.Jameco.com

For additional AVX Products, visit our website today!



## TPS Series Low ESR Tantalum Chip Capacitors

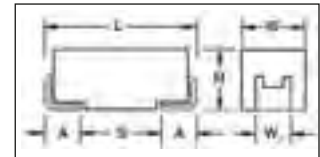
- Low ESR levels previously only seen by other technologies
- Capacitance tolerance: 10%, 20%
- Temperature range: -55°C to 125°C

For more AVX Tantalum Capacitors visit [www.Jameco.com](http://www.Jameco.com)

NEW



Case	EIA Code	L	W	H	W1	A	S (min.)
A	3216-18	3.2mm (0.126")	1.6mm (0.063")	1.6mm (0.063")	1.2mm (0.047")	0.8mm (0.031")	1.8mm (0.071")
B	3528-21	3.5mm (0.138")	2.8mm (0.110")	1.9mm (0.075")	2.2mm (0.087")	0.8mm (0.031")	1.4mm (0.055")
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
D	7343-31	7.3mm (0.287")	4.3mm (0.169")	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
V	7361-38	7.3mm (0.287")	6.1mm (0.240")	3.45mm (0.136")	3.1mm (0.120")	1.4mm (0.055")	1.8mm (0.071")



These products are sold on Tape and Reel

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852596	TPSA106K010R1800	A	10µF	10	10%	★ Call Call
852609	TPSB226K010R0700	B	22µF	10	10%	★ Call Call
852633	TPSB226M010R0700	B	22µF	10	20%	★ Call Call
852764	TPSC475K035R0600	C	4.7µF	35	10%	★ Call Call
852650	TPSC106M025R0500	C	10µF	25	20%	★ Call Call
768600	TPSC336K010R0375	C	33µF	10	10%	★ Call Call
768618	TPSC336K016R0300	C	33µF	16	10%	★ Call Call
768626	TPSC476K010R0350	C	47µF	10	10%	★ Call Call

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852676	TPSC107K006R0150	C	100µF	6.3	10%	★ Call Call
852705	TPSC107M006R0150	C	100µF	6.3	20%	★ Call Call
852692	TPSC107K010R0075	C	100µF	10	10%	★ Call Call
768589	TPSC107M010R0100	C	100µF	10	20%	★ Call Call
852721	TPSC227K006R0125	C	220µF	6.3	10%	★ Call Call
852781	TPSD106K035R0300	D	10µF	35	10%	★ Call Call
852801	TPSD106M035R0300	D	10µF	35	20%	★ Call Call
852895	TPSD156M035R0300	D	15µF	35	20%	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## TPS Series Low ESR Tantalum Chip Capacitors (Continued)

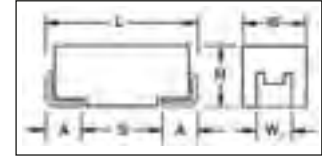
**NEW**
















- Low ESR levels previously only seen by other technologies
- Capacitance tolerance: 10%, 20%
- Temperature range: -55°C to 125°C

For more AVX Tantalum Capacitors visit [www.Jameco.com](http://www.Jameco.com)














Case	EIA Code	L	W	H	W1	A	S (min.)
A	3216-18	3.2mm (0.126")	1.6mm (0.063")	1.6mm (0.063")	1.2mm (0.047")	0.8mm (0.031")	1.8mm (0.071")
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E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
V	7361-38	7.3mm (0.287")	6.1mm (0.240")	3.45mm (0.136")	3.1mm (0.120")	1.4mm (0.055")	1.8mm (0.071")



These products are sold on Tape and Reel

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852932	TPSD226M025R0200 	D	22µF	25	20%	★ Call Call
852975	TPSD336M020R0200 	D	33µF	20	20%	★ Call Call
852991	TPSD476M016R0150 	D	47µF	16	20%	★ Call Call
853003	TPSD476M025R0250 	D	47µF	25	20%	★ Call Call
852844	TPSD107M010R0065 	D	100µF	10	20%	★ Call Call
852861	TPSD107M010R0080 	D	100µF	10	20%	★ Call Call
852828	TPSD107K016R0150 	D	100µF	16	10%	★ Call Call
852887	TPSD107M016R0125 	D	100µF	16	20%	★ Call Call
852916	TPSD157M010R0100 	D	150µF	10	20%	★ Call Call
852959	TPSD227K006R0100 	D	220µF	6.3	10%	★ Call Call
853100	TPSE226M035R0300 	E	22µF	35	20%	★ Call Call
853206	TPSE476K035R0200 	E	47µF	35	10%	★ Call Call
853222	TPSE476M035R0200 	E	47µF	35	20%	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
853302	TPSE686M020R0150 	E	68µF	20	20%	★ Call Call
853281	TPSE686K025R0125 	E	68µF	25	10%	★ Call Call
853020	TPSE107K016R0100 	E	100µF	16	10%	★ Call Call
853062	TPSE107M016R0100 	E	100µF	16	20%	★ Call Call
853046	TPSE107K020R0150 	E	100µF	20	10%	★ Call Call
853089	TPSE107M020R0150 	E	100µF	20	20%	★ Call Call
853126	TPSE227M010R0100 	E	220µF	10	20%	★ Call Call
853142	TPSE227M016R0100 	E	220µF	16	20%	★ Call Call
853169	TPSE337K006R0100 	E	330µF	6.3	10%	★ Call Call
853185	TPSE337M006R0100 	E	330µF	6.3	20%	★ Call Call
853249	TPSE477M010R0050 	E	470µF	10	20%	★ Call Call
853265	TPSE477M010R0100 	E	470µF	10	20%	★ Call Call
853329	TPSV337K010R0060 	V	330µF	10	10%	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.



## TAJ Series 125°C Standard Tantalum Chip Capacitors

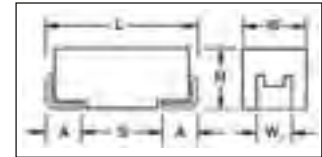
**NEW**
























The TAJ standard series encompasses the five key sizes recognized by major OEMs. The operational temperature is -55°C to 85°C at rated voltage and up to 125°C with voltage derated to 33%.

For more AVX Tantalum Capacitors visit [www.Jameco.com](http://www.Jameco.com)






















Case	EIA Code	L	W	H	W1	A	S (min.)
A	3216-18	3.2mm (0.126")	1.6mm (0.063")	1.6mm (0.063")	1.2mm (0.047")	0.8mm (0.031")	1.1mm (0.043")
B	3528-21	3.5mm (0.138")	2.8mm (0.110")	1.9mm (0.075")	2.2mm (0.087")	0.8mm (0.031")	1.4mm (0.055")
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
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E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")



These products are sold on Tape and Reel



Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
850195	TAJA105M025R 	A	1µF	25	20%	★ Call Call
768271	TAJA155K016R 	A	1.5µF	16	10%	★ Call Call
850371	TAJA225K010R 	A	2.2µF	10	10%	★ Call Call
768301	TAJA225M010R 	A	2.2µF	10	20%	★ Call Call
768298	TAJA225K020R 	A	2.2µF	20	10%	★ Call Call
850401	TAJA225K025R 	A	2.2µF	25	10%	★ Call Call
768319	TAJA335K010R 	A	3.3µF	3.3	10%	★ Call Call
850531	TAJA475M010R 	A	4.7µF	10	20%	★ Call Call
850494	TAJA475K016R 	A	4.7µF	16	10%	★ Call Call
850558	TAJA475M016R 	A	4.7µF	16	20%	★ Call Call
850523	TAJA475K020R 	A	4.7µF	20	10%	★ Call Call
768335	TAJA475K020Y 	A	4.7µF	20	10%	★ Call Call
850574	TAJA685K016R 	A	6.8µF	16	10%	★ Call Call
850259	TAJA106M006R 	A	10µF	6.3	20%	★ Call Call
850321	TAJA106M010R 	A	10µF	10	20%	★ Call Call
850347	TAJA106M016R 	A	10µF	16	20%	★ Call Call
768280	TAJA156K010R 	A	15µF	10	10%	★ Call Call
850435	TAJA226K006R 	A	22µF	6.3	10%	★ Call Call
850460	TAJA226K010R 	A	22µF	22	10%	★ Call Call
768327	TAJA336M006R 	A	33µF	6.3	20%	★ Call Call
850646	TAJB105M035R 	B	1µF	35	20%	★ Call Call
850873	TAJB225K020R	B	2.2µF	20	10%	★ Call Call
850937	TAJB225M020R	B	2.2µF	20	20%	★ Call Call
850902	TAJB225K025R	B	2.2µF	25	10%	★ Call Call
851104	TAJB475K010R	B	4.7µF	10	10%	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
851198	TAJB475M010R 	B	4.7µF	10	20%	★ Call Call
851227	TAJB475M016R 	B	4.7µF	16	20%	★ Call Call
851139	TAJB475K025R 	B	4.7µF	25	10%	★ Call Call
851163	TAJB475K035R 	B	4.7µF	35	10%	★ Call Call
850671	TAJB106K006R 	B	10µF	6.3	10%	★ Call Call
850734	TAJB106M006R 	B	10µF	6.3	20%	★ Call Call
850793	TAJB106M010R 	B	10µF	10	20%	★ Call Call
850700	TAJB106K020R 	B	10µF	20	10%	★ Call Call
850849	TAJB106M020R 	B	10µF	20	20%	★ Call Call
850961	TAJB226K006R 	B	22µF	6.3	10%	★ Call Call
850996	TAJB226K010R 	B	22µF	10	10%	★ Call Call
851024	TAJB226M010R 	B	22µF	10	20%	★ Call Call
851059	TAJB226M016R 	B	22µF	16	20%	★ Call Call
851075	TAJB336K010R 	B	33µF	10	10%	★ Call Call
851243	TAJB476K006R 	B	47µF	6	10%	★ Call Call
851278	TAJB476K010R 	B	47µF	10	10%	★ Call Call
851307	TAJB686K006R 	B	68µF	6.3	10%	★ Call Call
851340	TAJC105K050R 	C	1µF	50	10%	★ Call Call
768386	TAJC335K025R 	C	3.3µF	25	10%	★ Call Call
851593	TAJC475K020R 	C	4.7µF	20	10%	★ Call Call
851657	TAJC475M020R 	C	4.7µF	20	20%	★ Call Call
851614	TAJC475K025R	C	4.7µF	25	10%	★ Call Call
768407	TAJC475M025R	C	4.7µF	25	20%	★ Call Call
851631	TAJC475K035R	C	4.7µF	35	10%	★ Call Call
768415	TAJC475M035R	C	4.7µF	35	20%	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

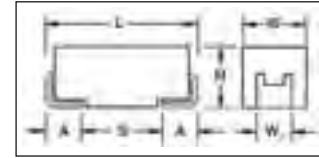


## TAJ Series 125°C Standard Tantalum Chip Capacitors (Continued)

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For more AVX Tantalum Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)

NEW



These products are sold on Tape and Reel

Case	EIA Code	L	W	H	W1	A	S (min.)
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Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
768440	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
851366	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
768343	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
851403	TAJ685K025R	R	6.8µF	25	20%	★	Call	Call
768351	TAJ685K025R	R	6.8µF	20	10%	★	Call	Call
851462	TAJ685K025R	R	6.8µF	6.3	10%	★	Call	Call
851489	TAJ685K010R	R	6.8µF	10	10%	★	Call	Call
851534	TAJ685K010R	R	6.8µF	10	20%	★	Call	Call
851497	TAJ685K016R	R	6.8µF	16	10%	★	Call	Call
851542	TAJ685K016R	R	6.8µF	16	20%	★	Call	Call
851518	TAJ685K020R	R	6.8µF	20	10%	★	Call	Call
768360	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
851551	TAJ685K010R	R	6.8µF	10	10%	★	Call	Call
851577	TAJ685K016R	R	6.8µF	16	10%	★	Call	Call
768394	TAJ685K020R	R	6.8µF	20	10%	★	Call	Call
851673	TAJ685K010R	R	6.8µF	10	10%	★	Call	Call
768423	TAJ685K016R	R	6.8µF	16	20%	★	Call	Call
851420	TAJ685K006R	R	6.8µF	6	10%	★	Call	Call
851446	TAJ685K010R	R	6.8µF	10	10%	★	Call	Call
768378	TAJ685K006R	R	6.8µF	6.3	10%	★	Call	Call
851876	TAJ685K050R	R	6.8µF	50	10%	★	Call	Call
768458	TAJ685K035R	R	6.8µF	35	10%	★	Call	Call
851690	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
851702	TAJ685K025R	R	6.8µF	25	20%	★	Call	Call
851711	TAJ685K035R	R	6.8µF	35	20%	★	Call	Call
851850	TAJ685K025R	R	6.8µF	25	10%	★	Call	Call
851892	TAJ685K016R	R	6.8µF	16	10%	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
851930	TAJD226M016R	R	22µF	16	20%	★	Call	Call
851913	TAJD226K020R	R	22µF	20	10%	★	Call	Call
851956	TAJD226M020R	R	22µF	20	20%	★	Call	Call
851972	TAJD226M025R	R	22µF	25	20%	★	Call	Call
851999	TAJD336K016R	R	33µF	16	10%	★	Call	Call
852035	TAJD336M016R	R	33µF	16	20%	★	Call	Call
852019	TAJD336K035R	R	33µF	35	10%	★	Call	Call
852051	TAJD336M035R	R	33µF	35	20%	★	Call	Call
852115	TAJD476M006R	R	47µF	6.3	20%	★	Call	Call
852078	TAJD476K010R	R	47µF	10	10%	★	Call	Call
852131	TAJD476M010R	R	47µF	10	20%	★	Call	Call
852140	TAJD476M016R	R	47µF	16	20%	★	Call	Call
852094	TAJD476K020R	R	47µF	20	10%	★	Call	Call
852166	TAJD476M025R	R	47µF	25	20%	★	Call	Call
852182	TAJD686K016R	R	68µF	16	10%	★	Call	Call
851737	TAJD107K006R	R	100µF	6.3	10%	★	Call	Call
851753	TAJD107K010R	R	100µF	10	10%	★	Call	Call
851817	TAJD107M010R	R	100µF	10	20%	★	Call	Call
851770	TAJD107K016R	R	100µF	16	10%	★	Call	Call
851833	TAJD107M016R	R	100µF	16	20%	★	Call	Call
851796	TAJD107K020R	R	100µF	20	10%	★	Call	Call
852238	TAJE226K035R	R	22µF	35	10%	★	Call	Call
852254	TAJE226M035R	R	22µF	35	20%	★	Call	Call
852297	TAJE336K025R	R	33µF	25	10%	★	Call	Call
852318	TAJE476K035R	R	47µF	35	10%	★	Call	Call
852342	TAJE686K025R	R	68µF	25	10%	★	Call	Call
852203	TAJE107K016R	R	100µF	16	10%	★	Call	Call
852220	TAJE107M016R	R	100µF	16	20%	★	Call	Call
852271	TAJE227M010R	R	220µF	10	20%	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.



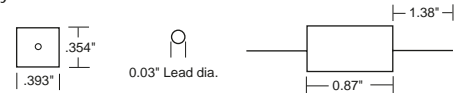
## 5-Watt Wirewound Resistors (5%)

## Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

Pricing Per Resistor					
Specify Part No. & Resistor Value	1	10	100	500	1000
(see Standard Resistor Values Chart below)	\$ .36	\$ .30	\$ .228	\$ .199	\$ .162

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



## Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660092	0.68	660236	2.7	660375	10	660519	36	660658	150	660797	500	660931	1.8k
659964	0.15	660105	0.75	660244	3.0	660383	11	660527	39	660666	160	660800	510	660949	2.0k
659972	0.20	660113	0.82	660252	3.3	660391	12	660535	43	660674	180	660818	560	660957	2.2k
659981	0.22	660121	0.91	660261	3.9	660404	13	660543	47	660682	200	660826	620	660965	2.4k
659999	0.27	660130	1.0	660279	4.0	660412	15	660551	50	660691	220	660834	680	660973	2.7k
660009	0.30	660148	1.1	660287	4.7	660421	16	660560	56	660703	240	660842	750	660981	3.0k
660017	0.33	660156	1.2	660295	5.0	660439	18	660578	62	660711	250	660851	820	660990	3.3k
660025	0.39	660164	1.3	660308	5.1	660447	20	660586	68	660720	270	660869	910	661001	3.9k
660033	0.43	660172	1.5	660316	5.6	660455	22	660594	75	660738	300	660877	1.0k	661010	4.7k
660041	0.47	660181	1.6	660324	6.2	660463	24	660607	82	660746	330	660885	1.1k	661028	5.0k
660050	0.50	660199	1.8	660332	6.8	660471	25	660615	91	660754	360	660893	1.2k	661036	10k
660068	0.51	660201	2.0	660341	7.5	660480	27	660623	100	660762	390	660906	1.3k	661044	20k
660076	0.56	660210	2.2	660359	8.2	660498	30	660631	120	660771	430	660914	1.5k	661052	25k
660084	0.62	660228	2.4	660367	9.1	660501	33	660640	130	660789	470	660922	1.6k		

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

1/4-Watt Carbon Film Resistors (±5%)



Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Unit (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$.01	\$.009	\$.008	\$.007

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690427	15	690620	100	690822	680	691024	4.7k	691227	33k	691420	220k	691622	1.5M
690224	2.4	690435	16	690638	110	690831	750	691032	5.1k	691235	36k	691438	240k	691631	1.6M
690232	2.7	690443	18	690646	120	690849	820	691041	5.6k	691243	39k	691446	270k	691892	1.8M
690241	3.0	690451	20	690654	130	690857	910	691059	6.2k	691251	43k	691454	300k	691649	2.0M
690259	3.3	690460	22	690662	150	690865	1.0k	691067	6.8k	691260	47k	691462	330k	691657	2.2M
690267	3.6	690478	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M
690275	3.9	690486	27	690689	180	690881	1.2k	691083	8.2k	691286	56k	691489	390k	691673	2.7M
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M
690291	4.7	690507	33	690700	220	690902	1.5k	691104	10k	691307	68k	691500	470k	691690	3.3M
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M
690312	5.6	690523	39	690726	270	690929	1.8k	691121	12k	691323	82k	691526	560k	691711	3.9M
690321	6.2	690531	43	690734	300	690937	2.0k	691139	13k	691331	91k	691534	620k	691737	4.7M
690339	6.8	690540	47	690742	330	690945	2.2k	691147	15k	691340	100k	691542	680k	691745	5.1M
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M
690363	8.2	690566	56	690769	390	690961	2.7k	691163	18k	691366	120k	691569	820k	691761	6.2M
690371	9.1	690574	62	690777	430	690970	3.0k	691171	20k	691374	130k	691577	910k	691770	6.8M
690380	10	690582	68	690785	470	690988	3.3k	691180	22k	691382	150k	691585	1.0M	691788	7.5M
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M
690401	12	690603	82	690806	560	691008	3.9k	691201	27k	691403	180k	691606	1.2M	691809	9.1M
690419	13	690611	91	690814	620	691016	4.3k	691219	30k	691411	200k	691614	1.3M	691817	10M

\*▲● see above

1/2-Watt Carbon Film Resistors (±5%)



Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Unit (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$.028	\$.014	\$.013	\$.014

Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing	
				1	10
107853	ASST1230	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked by # (540 pcs.)	\$15.69	\$14.17
107845	ASST1227	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107837	ASST1270	—	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart below)	10.95	9.95
107879	CAB12R	—	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 117	29.95	26.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	1.0	659796	8.2	661212	62	661423	470	661642	3.6k	661853	27k	662063	200k	662274	1.5M
659585	1.1	659809	9.1	661221	68	661431	510	661651	3.9k	661861	30k	662071	220k	662282	1.6M
659593	1.2	659817	✓X	661239	75	661440	560	661669	4.3k	661870	✓X	662080	240k	662291	1.8M
659606	1.3	659825	11	661247	82	661458	620	661677	✓X	661888	36k	662098	270k	662303	2.0M
659614	1.5	659833	12	661255	91	661466	✓X	661685	✓X	661896	39k	662101	300k	662311	2.2M
659622	1.6	659841	13	661263	✓#	661474	750	661693	✓X	661909	43k	662119	330k	662320	2.4M
659631	1.8	659850	15	661271	110	661482	820	661706	6.2k	661917	✓X	662127	360k	662338	2.7M
659649	2.0	659868	16	661280	120	661491	910	661714	X	661925	51k	662135	390k	662346	3.0M
659657	2.2	659876	18	661298	130	661503	✓X	661722	7.5k	661933	56k	662143	430k	662354	3.3M
659665	2.4	659884	20	661301	✓X	661511	1.1k	661731	8.2k	661941	62k	662151	✓X	662362	3.6M
659673	2.7	659892	22	661319	160	661520	1.2k	661749	9.1k	661950	68k	662160	510k	662371	3.9M
659681	3.0	659905	24	661327	180	661538	1.3k	661757	✓X	661968	75k	662178	560k	662389	4.3M
659690	3.3	661124	27	661335	200	661546	✓X	661765	1.5k	661976	82k	662186	620k	662397	4.7M
659702	3.6	661132	30	661343	✓#	661554	1.6k	661773	1.6k	661984	91k	662194	680k	662400	5.1M
659711	3.9	661141	33	661351	240	661562	1.8k	661781	13k	661992	✓X	662207	750k	662418	5.6M
659729	4.3	661159	36	661360	✓X	661571	✓X	661790	✓X	662004	15k	662215	820k	662426	6.2M
659737	4.7	661167	39	661378	300	661589	✓X	661802	2.2k	662012	16k	662223	910k	662434	6.8M
659745	5.1	661175	43	661386	✓X	661597	330	661811	2.4k	662021	18k	662231	✓X	662442	7.5M
659753	5.6	661183	✓X	661394	360	661600	✓X	661829	20k	662039	150k	662240	1.1M	662451	8.2M
659761	6.2	661191	47	661407	X	661618	390	661837	✓X	662047	160k	662258	1.2M	662469	9.1M
659770	6.8	661204	56	661415	430	661634	✓X	661845	24k	662055	180k	662266	1.3M	662477	✓X
659788	7.5														

(✓), (X), (#) symbols indicate Resistor values included in Assortments above.

## 1/8-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W – \$12.95/k (bulk)

Part No.	Cross Ref. No.	Values included	Description (see chart below)	Pricing	
				1	10
108303	ASST1830	X	10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.)	\$12.95	\$11.49
108290	ASST1827	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	31.45	28.35
108329	CAB182R	—	1/8-watt resistor component cabinet kit – 30 values (540 pcs.), see page 117	25.45	22.95

### 1/8-Watt Resistor Assortments Value Chart (Ohms)

10 ✓	150 ✓	330 ✓	680 ✓	2.0k ✓	3.3k ✓	5.6k ✓	15k ✓	33k ✓	470k ✓
47 ✓	220 ✓	390 X	1.0k #	2.2k X	4.7k #	6.8k X	22k X	47k X	1.0M X
100 #	270 X	470 X	1.5k X	2.7k X	5.1k X	10k #	27k X	100k #	10M X

(✓), (X), (#) symbols indicate Resistor values included in Assortments above.

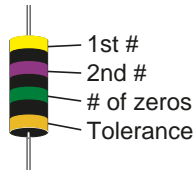
## 1/4-Watt & 1/2-Watt Resistor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10	50
106884	1/4W & 1/2W	\$2.79	\$2.65	\$2.52

### Resistor Color Code



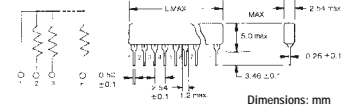
1st & 2nd Band	3rd Band	4th Band
0 - Black	Black	1 Gold - ±5%
1 - Brown	Brown	10
2 - Red	Red	100
3 - Orange	Orange	1,000
4 - Yellow	Yellow	10,000
5 - Green	Green	100,000
6 - Blue	Blue	1,000,000
7 - Violet	Silver	0.01 No Band - ±20%
8 - Gray	Silver	0.1
9 - White	Gold	0.1

## Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- 8-pin package (7 resistors) = 8BRN
- 10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.20" body ht.)
- Low profile is compatible with DIPs
- Cermet thick film construction



Pricing per each			
1	10	100	1000
\$0.25	\$0.19	\$0.15	\$0.12
Pricing for P/N 97826			
\$0.24	\$0.18	\$0.14	\$0.11

Part No.	Pins	Ohms
97826	8	10k
97851	10	330
97869	10	470
97877	10	1.0k
97893	10	2.2k
24660	10	4.7k
24643	10	10k
98087	10	47k
98095	10	100k

## Dual-In-Line "DIP" Resistor Networks (±2%)

16-Pin Isolated (140mW/Resistor) ±2%

Features (161RN):

- Tolerance: ±2%
- Max. operating voltage: 100V
- Temperature coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each			
1	10	100	1000
\$0.47	\$0.42	\$0.31	\$0.29

Part No.	Ohms
164005	33
108556	100
108564	220
108572	330
108581	470
108599	1.0k
108610	4.7k
108628	10k
108644	100k

### SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A - B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN...	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN...	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX... X2PD	9S10... GL002
161RN...	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J

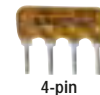


**NEW**

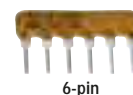
## 4600 Series Conformal SIP Resistors

- Max. operating voltage: 100V
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- Operating temp.: -55°C to 125°C
- Epoxy resin body

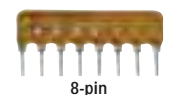
- UL94V-0 flammability rating
- Tolerance: 10Ω to 49Ω: ±1Ω; 50Ω to 5MΩ: ±2%



4-pin



6-pin



8-pin

For more Bourns SIP Resistors  
visit [www.Jameco.com](http://www.Jameco.com)

### 4-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Minimum order 5 pieces	
			5	100
772570	4604X-101-472	4.7k	\$ .175	\$ .147
772596	4604X-102-103	10k	.175	.147
772588	4604X-101-473	47k	.175	.147

### 4-Pin Isolated, Low Profile

Part No.	Product No.	Ohms	Minimum order 10 pieces	
			10	100
772617	4604X-102-473LF	47k	\$ .177	\$ .155

### 4-Pin Bussed, Medium Profile

Part No.	Product No.	Ohms	Minimum order 10 pieces	
			10	100
772625	4605M-101-103LF	10k	\$ .221	\$ .193

### 5-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Minimum order 10 pieces	
			10	100
772668	4605X-101-681	680	\$ .177	\$ .155
772641	4605X-101-222	2.2k	.186	.16
857611	4605X-101-103	10k	.186	.16
772650	4605X-101-223	22k	.186	.16

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

### 6-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Minimum order 5 pieces	
			5	100
772676	4606X-101-222LF	2.2k	\$ .122	\$ .147
772705	4606X-101-472LF	4.7k	.122	.147
772684	4606X-101-223LF	22k	.122	.147
772692	4606X-101-224LF	220k	.122	.147

### 6-Pin Isolated, Low Profile

Part No.	Product No.	Ohms	Minimum order 5 pieces	
			5	100
772772	4606X-102-220LF	22	\$ .184	\$ .147
772713	4606X-102-101	100	.122	.147
772810	4606X-102-331	330	.122	.167
772852	4606X-102-471	470	.122	.167
772887	4606X-102-561LF	560	.122	.167
857645	4606X-102-102	1k	.122	.149
772721	4606X-102-102LF	1k	.122	.149
857733	4606X-102-222	2.2k	.122	.167
772844	4606X-102-392LF	3.9k	.122	.167
857768	4606X-102-472	4.7k	.122	.149
857670	4606X-102-103	10k	.122	.149
772799	4606X-102-223	22k	.122	.167
772836	4606X-102-333	33k	.122	.167
772861	4606X-102-473	47k	.122	.167
857709	4606X-102-104	100k	.122	.149

### 7-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Minimum order 5 pieces	
			5	100
772908	4607X-101-103LF	10k	\$ .223	\$ .196

### 8-Pin Isolated, Medium Profile

Part No.	Product No.	Ohms	Minimum order 10 pieces	
			10	100
772941	4608M-102-151LF	150	\$ .295	\$ .258
772924	4608M-102-103	10k	.295	.258
772932	4608M-102-103LF	10k	.295	.258

### 8-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Minimum order 10 pieces	
			10	100
772975	4608X-101-121LF	120	\$ .154	\$ .135
772983	4608X-101-181LF	180	.163	.186
772959	4608X-101-102LF	1k	.163	.186
772991	4608X-101-332LF	3.3k	.163	.186
773003	4608X-101-472LF	4.7k	.163	.186
772967	4608X-101-104LF	100k	.163	.186

For CTS Network Resistors,  
visit [www.Jameco.com](http://www.Jameco.com).



## 4600 Series Conformal SIP Resistors (Continued)

- Max. operating voltage: 100V
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- Operating temp.: -55°C to 125°C
- UL94V-0 flammability rating
- Epoxy resin body
- Tolerance: 10Ω to 49Ω: ±1Ω; 50Ω to 5MΩ: ±2%

**NEW**



9-pin



10-pin

For more Bourns SIP Resistors visit [www.Jameco.com](http://www.Jameco.com)

### 8-Pin Isolated, Low Profile

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
857784	4608X-102-100	10	..... *	\$ .163	\$ .202
773011	4608X-102-100LF♣	10	..... *	.163	.202
773134	4608X-102-220	22	..... *	.175	.161
773169	4608X-102-270	27	..... *	.163	.186
773177	4608X-102-330	33	..... *	.163	.186
773257	4608X-102-470	47	..... *	.163	.186
858381	4608X-102-560	56	..... *	.163	.186
857813	4608X-102-101	100	..... *	.163	.186
773020	4608X-102-101LF♣	100	..... *	.163	.186
857961	4608X-102-121	120	..... *	.184	.176
773062	4608X-102-121LF♣	120	..... *	.163	.186
857995	4608X-102-151	150	..... *	.163	.186
858103	4608X-102-221	220	..... *	.163	.186
773142	4608X-102-221LF♣	220	..... *	.163	.186
858197	4608X-102-271	270	..... *	.163	.186
858242	4608X-102-331	330	..... *	.163	.186
773231	4608X-102-391	390	..... *	.163	.186
858293	4608X-102-471	470	..... *	.163	.186
773265	4608X-102-471LF♣	470	..... *	.163	.186
773290	4608X-102-511	510	..... *	.163	.186
773302	4608X-102-561	560	..... *	.163	.186
773311	4608X-102-561LF♣	560	..... *	.163	.186
858411	4608X-102-681	680	..... *	.163	.186
857848	4608X-102-102	1k	..... *	.163	.176
773118	4608X-102-202	2k	..... *	.163	.176
858138	4608X-102-222	2.2k	..... *	.163	.186
858226	4608X-102-272	2.7k	..... *	.163	.186
858277	4608X-102-332	3.3k	..... *	.163	.186
773185	4608X-102-332LF♣	3.3k	..... *	.163	.186
858322	4608X-102-472	4.7k	..... *	.163	.186
773273	4608X-102-472LF♣	4.7k	..... *	.163	.186
773329	4608X-102-562	5.6k	..... *	.163	.186
773337	4608X-102-562LF♣	5.6k	..... *	.163	.186
857872	4608X-102-103	10k	..... *	.163	.186
773038	4608X-102-103F	10k	..... *	.252	.231
773071	4608X-102-123♣	12k	..... ★	Call	Call
858040	4608X-102-153	15k	..... *	.163	.186
858074	4608X-102-203	20k	..... *	.163	.186
858162	4608X-102-223	22k	..... *	.163	.186
773193	4608X-102-333	33k	..... *	.163	.186
773206	4608X-102-333LF♣	33k	..... *	.163	.186
858357	4608X-102-473	47k	..... *	.163	.186
773281	4608X-102-473LF♣	47k	..... *	.163	.186
773345	4608X-102-563	56k	..... *	.163	.186
773361	4608X-102-823	82k	..... *	.163	.186
857901	4608X-102-104	100k	..... *	.163	.186
773046	4608X-102-104LF♣	100k	..... *	.163	.186
773089	4608X-102-154	150k	..... *	.163	.186
773151	4608X-102-224	220k	..... *	.163	.186
773214	4608X-102-334LF♣	330k	..... *	.163	.186
857936	4608X-102-105	1M	..... *	.163	.176
773054	4608X-102-105LF♣	1M	..... *	.163	.186

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♻️ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

### 9-Pin Bussed, Low Profile

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
858470	4609X-101-102	1k	..... *	\$ .281	\$ .245
773433	4609X-101-202♣	2k	..... ★	Call	Call
858550	4609X-101-222	2.2k	..... *	.262	.225
773450	4609X-101-332	3.3k	..... *	.262	.225
858605	4609X-101-472	4.7k	..... *	.258	.225
858509	4609X-101-103	10k	..... *	.258	.225
773409	4609X-101-103F♣	10k	..... *	.366	.32
773441	4609X-101-223	22k	..... *	.262	.225
858630	4609X-101-473	47k	..... *	.262	.225
858525	4609X-101-104	100k	..... *	.262	.225
773417	4609X-101-105	1M	..... *	.262	.225

### 10-Pin Bussed, Low Profile

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
773484	4610X-101-101LF♣	100	..... *	\$ .191	\$ .235
773521	4610X-101-331LF	330	..... *	.191	.235
773492	4610X-101-102LF♣	1k	..... *	.191	.235
773530	4610X-101-332LF♣	3.3k	..... *	.191	.216
773505	4610X-101-103LF♣	10k	..... *	.191	.235
773513	4610X-101-223LF♣	22k	..... *	.191	.216
773548	4610X-101-473LF♣	47k	..... *	.191	.216

### 10-Pin Isolated, Low Profile

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
773636	4610X-102-330♣	33	..... *	\$ .191	\$ .24
773661	4610X-102-470	47	..... *	.191	.24
773695	4610X-102-560♣	56	..... *	.191	.284
858664	4610X-102-101	100	..... *	.191	.216
858816	4610X-102-221	220	..... *	.213	.186
773644	4610X-102-331	330	..... *	.191	.24
773679	4610X-102-471	470	..... *	.213	.196
773708	4610X-102-561	560	..... *	.191	.239
858699	4610X-102-102	1k	..... *	.213	.196
773564	4610X-102-152	1.5k	..... *	.191	.235
773572	4610X-102-202	2k	..... *	.191	.24
773628	4610X-102-272♣	2.7k	..... *	.182	.159
773652	4610X-102-332	3.3k	..... *	.191	.235
858875	4610X-102-472	4.7k	..... *	.191	.235
773687	4610X-102-472LF♣	4.7k	..... *	.191	.235
858728	4610X-102-103	10k	..... *	.191	.235
773581	4610X-102-203	20k	..... *	.213	.196
858841	4610X-102-223	22k	..... *	.191	.235
858891	4610X-102-473	47k	..... *	.213	.196
773716	4610X-102-563	56k	..... *	.191	.235
858752	4610X-102-104	100k	..... *	.213	.196
773610	4610X-102-224	220k	..... *	.191	.235
858787	4610X-102-105	1M	..... *	.191	.235

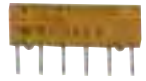
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Email us 24/7 at  
**NewProducts@Jameco.com**  
with suggestions for products you'd  
like to see in future catalogs.



## 4300R Series Low-Profile Molded SIP Resistors

- Max. operating voltage: 100V
- Operating temp.: -55°C to 125°C
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- UL94V-0 flammability rating
- Solder coated copper leads
- Novolac epoxy body
- Tolerance: 2%



6-pin

**NEW**

For more Bourns SIP Resistors visit [www.Jameco.com](http://www.Jameco.com)

### 6-Pin Bussed, 0.75-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771711	4306R-101-151♣	150	..... *	\$ .34	\$ .294
771737	4306R-101-221♣	220	..... *	.34	.294
771770	4306R-101-471♣	470	..... *	.34	.294
856600	4306R-101-102♣	1k	..... *	.319	.287
771729	4306R-101-202♣	2k	..... *	.344	.294
771745	4306R-101-222♣	2.2k	..... *	.34	.294
771761	4306R-101-272♣	2.7k	..... *	.34	.294
856669	4306R-101-332♣	3.3k	..... *	.34	.294
856685	4306R-101-472♣	4.7k	..... *	.34	.294
771788	4306R-101-562♣	5.6k	..... *	.34	.294
856634	4306R-101-103♣	10k	..... *	.34	.294
771681	4306R-101-103LF♣	10k	..... *	.34	.294
771753	4306R-101-223♣	22k	..... *	.34	.294
856714	4306R-101-473♣	47k	..... *	.34	.294
771690	4306R-101-104♣	100k	..... *	.34	.294
771702	4306R-101-105♣	1M	..... *	.34	.294

### 6-Pin Isolated, 0.75-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771796	4306R-102-101♣	100	..... *	\$ .34	\$ .294
771809	4306R-102-102♣	1k	..... *	.34	.294
771825	4306R-102-122♣	1.2k	..... *	.34	.294
856731	4306R-102-103♣	10k	..... *	.34	.294
771817	4306R-102-104♣	100k	..... *	.34	.294

### 8-Pin Bussed, 1-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771868	4308R-101-221♣	220	..... *	\$ .388	\$ .333
771905	4308R-101-331♣	330	..... *	.388	.333
771921	4308R-101-471♣	470	..... *	.388	.333
771948	4308R-101-681♣	680	..... *	.388	.333
856765	4308R-101-102♣	1k	..... *	.388	.333
771850	4308R-101-152♣	1.5k	..... *	.388	.333
771876	4308R-101-222♣	2.2k	..... *	.327	.304
771913	4308R-101-332♣	3.3k	..... *	.388	.333
856853	4308R-101-472♣	4.7k	..... *	.367	.33
771956	4308R-101-682♣	6.8k	..... *	.388	.333
856790	4308R-101-103♣	10k	..... *	.367	.33
771884	4308R-101-223♣	22k	..... *	.388	.333
771930	4308R-101-473♣	47k	..... *	.388	.304
856829	4308R-101-104♣	100k	..... *	.388	.333
771892	4308R-101-224♣	220k	..... *	.388	.333

### 8-Pin Isolated, 1-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
772060	4308R-102-220♣	22	..... *	\$ .388	\$ .333
772123	4308R-102-330♣	33	..... *	.46	.401
856992	4308R-102-470♣	47	..... *	.388	.333
772166	4308R-102-680♣	68	..... *	.388	.333
771964	4308R-102-101♣	100	..... *	.388	.333
771999	4308R-102-121♣	120	..... *	.388	.333
772019	4308R-102-151♣	150	..... *	.388	.304
772035	4308R-102-181♣	180	..... *	.388	.304
772078	4308R-102-221♣	220	..... *	.388	.333
772107	4308R-102-271♣	270	..... *	.388	.333

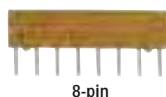
# Molded SIP Resistors & SMT Resistor Arrays

Color Code Legend			
New	Sale	Lower\$	QtySave

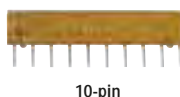


## 4300R Series Low-Profile Molded SIP Resistors (Continued)

- Max. operating voltage: 100V
- Tolerance: 2% unless otherwise noted
- Operating temp.: -55°C to 125°C
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- UL94V-0 flammability rating
- Novolac epoxy body
- Solder coated copper leads



8-pin



10-pin

**NEW**

For more Bourns SIP Resistors visit [www.Jameco.com](http://www.Jameco.com)

### 8-Pin Isolated, 1-Watt (Cont.)

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
772131	4308R-102-331	330	..... *	\$ .388	\$ .304
857021	4308R-102-471	470	..... *	.388	.304
772174	4308R-102-681	680	..... *	.388	.304
856870	4308R-102-102	1k	..... *	.367	.304
772001	4308R-102-122	1.2k	..... *	.388	.304
772051	4308R-102-202	2k	..... *	.388	.304
772086	4308R-102-222	2.2k	..... *	.388	.304
772115	4308R-102-272	2.7k	..... *	.388	.304
772140	4308R-102-332	3.3k	..... *	.388	.304
857055	4308R-102-472	4.7k	..... *	.388	.304
856909	4308R-102-103	10k	..... *	.385	.334
771972	4308R-102-103F	10k	..... *	.393	.373
772027	4308R-102-153	15k	..... *	.388	.304
856968	4308R-102-223	22k	..... *	.388	.304
772158	4308R-102-473	47k	..... *	.388	.304
856933	4308R-102-104	100k	..... *	.388	.304
772043	4308R-102-184	180k	..... *	.391	.338
772094	4308R-102-224	220k	..... *	.388	.304
771981	4308R-102-105LF	1M	..... *	.388	.304

† 1% tolerance

### 9-Pin Bussed, 1.13-Watt

Part No.	Product No.	Ohms	1	5	100
772203	4309R-101-272	2.7k	.. \$ .54	\$ .465	\$ .461
857101	4309R-101-472	4.7k	.... \$ .54	.465	.461
857080	4309R-101-103	10k	.... \$ .54	.465	.461
772191	4309R-101-223	22k	.... \$ .54	.465	.461

### 10-Pin Isolated, 1.25-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
857442	4310R-102-101	100	... \$ .55	\$ .466	\$ .402
772490	4310R-102-331	330	..... *	.359	.329
772529	4310R-102-471	470	..... .55	.466	.402
857531	4310R-102-681	680	..... .55	.466	.402
772431	4310R-102-102	1k	..... .55	.466	.402
772449	4310R-102-102LF	1k	..... .55	.466	.402
772457	4310R-102-122	1.2k	..... .55	.466	.402
772465	4310R-102-202	2k	..... .55	.466	.402
772481	4310R-102-222	2.2k	..... .55	.466	.402
772502	4310R-102-332	3.3k	..... .55	.466	.402
772537	4310R-102-472	4.7k	..... .55	.466	.402
857477	4310R-102-103	10k	..... .52	.437	.394
772473	4310R-102-203	20k	..... .55	.466	.402
772511	4310R-102-333	33k	..... .55	.466	.402
857506	4310R-102-104	100k	..... .55	.466	.402

### 10-Pin Bussed, 1.25-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
772369	4310R-101-470	47	..... \$ .55	\$ .467	\$ .40
772211	4310R-101-101	100	..... .52	.359	.319
857240	4310R-101-151	150	..... .55	.466	.402
772254	4310R-101-181	181	..... .55	.466	.402
772300	4310R-101-271LF	270	..... .55	.466	.403
772326	4310R-101-331	330	..... *	.359	.329
772342	4310R-101-391	390	..... .55	.466	.402
857354	4310R-101-471	470	..... .53	.446	.402
772393	4310R-101-681	680	..... .55	.466	.402
772414	4310R-101-821	820	..... .55	.466	.402
857135	4310R-101-102	1k	..... .52	.437	.394
772220	4310R-101-102LF	1k	..... .53	.446	.402
772262	4310R-101-182	1.8k	..... .55	.466	.402
772271	4310R-101-202	2k	..... .55	.466	.402
857274	4310R-101-222	2.2k	..... .53	.446	.402
772318	4310R-101-272	2.7k	..... .55	.466	.402
857320	4310R-101-332	3.3k	..... *	.359	.329
772351	4310R-101-392	3.9k	..... .55	.466	.402
857389	4310R-101-472	4.7k	..... .51	.437	.394
772377	4310R-101-472LF	4.7k	..... .53	.446	.402
772385	4310R-101-562	5.6k	..... .55	.466	.402
772406	4310R-101-682	6.8k	..... .55	.466	.402
772422	4310R-101-822	8.2k	..... *	.359	.329
857160	4310R-101-103	10k	..... .52	.437	.394
772238	4310R-101-103LF	10k	..... .53	.446	.402
772289	4310R-101-203	20k	..... .55	.466	.402
857291	4310R-101-223	22k	..... *	.359	.329
772334	4310R-101-333	33k	..... .55	.466	.402
857418	4310R-101-473	47k	..... .52	.436	.394
857215	4310R-101-104	100k	..... .52	.436	.394
772297	4310R-101-224	220k	..... *	.359	.329
772246	4310R-101-105	1M	..... .55	.466	.402



- High density
- Improvement of placement efficiency
- 2 resistors in 1mm x 1mm (EXB24V)
- 4 resistors in 2mm x 1mm (EXB28V)
- 8 resistors in 3.8mm x 1.6mm (EXB2HV)
- 4 resistors in 3.2mm x 1.6mm (EXB38V, V8V)

## Surface Mount Chip Resistor Arrays

For more Panasonic SMT Chip Resistors visit [www.Jameco.com](http://www.Jameco.com)

### Improvement of Placement Efficiency

Type	Dimensions in mm						
	L	W	T	A1	A2	B	P
Convex Terminal Type							
EXB24V (0402 x 2)	1.0	1.0	0.35	0.40	—	0.18	(0.65)
EXB28V (0402 x 4)	2.0	1.0	0.35	0.45	0.35	0.20	(0.50)
EXB28HV (0402 x 8)	3.8	1.6	0.45	0.35	0.35	0.30	(0.50)
EXB38V (0603 x 4)	3.2	1.6	0.50	0.65	0.45	0.30	(0.80)
Concave Terminal Type							
EXBN8V (0402 x 4)	2.0	1.0	0.45	0.30	0.30	0.20	(0.50)
EXBV8V (0603 x 4)	3.2	1.6	0.60	0.60	0.60	0.30	(0.80)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Case Type	No. of Resistors	Value (Ω)	Tolerance	Pricing	
865119	EXB-24V100JX	0402	2	10	5%	★	Call
865258	EXB-28VR000X	0402	4	0	0%	★	Call
865143	EXB-28V100JX	0402	4	10	5%	★	Call
865207	EXB-28V220JX	0402	4	22	5%	★	Call
922890	EXB-28V330JX	0402	4	33	5%	★	Call
865231	EXB-28V390JX	0402	4	39	5%	★	Call
865240	EXB-28V470JX	0402	4	47	5%	★	Call
922953	EXB-28V560JX	0402	4	56	5%	★	Call
865151	EXB-28V101JX	0402	4	100	5%	★	Call
865223	EXB-28V331JX	0402	4	330	5%	★	Call
922929	EXB-28V472JX	0402	4	4.7k	5%	★	Call
922865	EXB-28V103JX	0402	4	10k	5%	★	Call
865194	EXB-28V203JX	0402	4	20k	5%	★	Call
865178	EXB-28V104JX	0402	4	100k	5%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case Type	No. of Resistors	Value (Ω)	Tolerance	Pricing	
923059	EXB-2HVR000V	0402	8	0	0%	★	Call
922970	EXB-2HV101JV	0402	8	100	5%	★	Call
923091	EXB-38V220JV	0603	4	22	5%	★	Call
865291	EXB-38V330JV	0603	4	33	5%	*	.029
865303	EXB-38V390JV	0603	4	39	5%	★	Call
865311	EXB-38V510JV	0603	4	51	5%	★	Call
865320	EXB-38V560JV	0603	4	56	5%	★	Call
865266	EXB-38V102JV	0603	4	1k	5%	★	Call
865282	EXB-38V222JV	0603	4	2.2k	5%	★	Call
923075	EXB-38V103JV	0603	4	10k	5%	★	Call
865274	EXB-38V221JV	0603	4	22k	5%	★	Call
923171	EXB-38V330JV	0603	4	33	5%	★	Call
923198	EXB-38V472JV	0603	4	4.7k	5%	*	.081
923155	EXB-38V103JV	0603	4	10k	5%	*	.081

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## Chip Resistor Array Concave and Convex

**NEW**

For more Bourns Resistors  
 visit [www.Jameco.com](http://www.Jameco.com)

- Power rating per resistor: 31mW @ 70°C
- Operating temperature: -55°C to 125°C

- Package rating: 125mW @ 70°C
- Tolerance: ±5%

### 0804 Package CAT10 Series: Concave

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing		
774090	CAT10-5R1J4LF	4	5.1	★	Call	Call
774102	CAT10-7R5J4LF	4	7.5	★	Call	Call
774065	CAT10-100J4LF	4	10	★	Call	Call
774073	CAT10-180J4LF	4	18	★	Call	Call
774081	CAT10-220J4LF	4	22	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### 1206 Package CAT16 Series: Concave

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing		
774111	CAT16-000J4LF	4	0	★	Call	Call
774153	CAT16-220J2LF	4	22	★	Call	Call
774161	CAT16-220J4GLF	4	22	★	Call	Call
774170	CAT16-220J4LF	4	33	★	Call	Call
774250	CAT16-750J4LF	4	75	★	Call	Call
774209	CAT16-331J4LF	4	330	★	Call	Call
774217	CAT16-333J4LF	4	33k	★	Call	Call

↑ 2 elements (isolated) ★ Please call or visit our website for minimum order quantity and pricing.



CAT10 Series



CAY10 Series



CAT16/CAY16 Series

### 0804 Package CAY10 Series: Convex

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing		
774305	CAY10-3R0J2LF	2	3	★	Call	Call
774313	CAY10-5R1J2LF	2	5.1	★	Call	Call
774276	CAY10-180J2LF	2	18	★	Call	Call
774284	CAY10-220J2LF	2	22	★	Call	Call

↑ 2 elements (isolated) ★ Please call or visit our website for minimum order quantity and pricing.

### 1206 Package CAY16 Series: Convex

\* Minimum order 10 pieces

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing		
774381	CAY16-240J4LF	4	24	★	Call	Call
774444	CAY16-822J4LF	4	8.2k	★	Call	Call
774330	CAY16-103J4LF	4	10k	★	Call	Call
774356	CAY16-104J4LF	4	100k	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

## 0805 Resistor Assortment (±5%)

144 Values, 50 pcs. each;  
 7,200 pcs. Total

- Max. overload voltage: 200V
- 1/8 watts
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: -50°C to 120°C
- Size (mm): 2.0L x 1.25W x 0.5Thick

• Weight: 1.9 lbs.

Includes: Case with labels

Part No.	Cross Ref. No.	1	10	25
172806	16-500	\$79.95	\$71.95	\$64.79

#### Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
4.3	30	160	820	3.9k	20k	100k	560k	4.3M
4.7	33	180	910	4.3k	22k	110k	620k	4.7M
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.8M
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

## 1206 Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H



Packaged in strips of  
 200 pcs. each

#### Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

Part No.	Cross Ref. No.	1	10	25
156882	SMR1206SB	\$99.99	\$89.99	\$79.99



For more Panasonic Resistors  
 visit [www.Jameco.com](http://www.Jameco.com)

## 5% Single Value Resistor Pricing

To order: Use part number adjacent to ohms in chart below.  
 Values may not be combined for quantity price breaks.

Pricing Per Unit				
Specify Part No. & Resistor Value	Pricing			
0402 (Resistor Values Chart)	★	Call	Call	Call
1216 (Resistor Values Chart)	★	Call	Call	Call
0603 (Resistor Values Chart)	★	Call	Call	Call
0805 (Resistor Values Chart)	★	Call	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### Case Size 0402 (ERJ-2GEJ Series)

Part No.	Ohms	Part No.	Ohms
920827	0	862065	680
861901	1	861943	2.7k
862031	5.1	862006	4.7k
861775	10	920886	10k
920915	33	861791	100k
920851	100	861812	1M
861871	150	861847	10M
861978	430		

### Case Size 1206 (ERJ-8GEY Series)

Part No.	Ohms	Part No.	Ohms
922611	0	864845	1k
864888	1	864909	3k
864933	3	864925	3.3k
864829	10	922654	4.7k
864837	100	864870	18k
864896	270	864853	100k
864917	330	864861	10M

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

## 5% Precision Thick Film Resistors

Case Size	Power Rating	Max. RCWV	Overload Voltage	Dimensions (mm)					Temperature Coefficient	Panasonic Series No.
				L	W	a	b	t		
0402	1/16W	50V	100V	1	0.5	0.35	0.2	0.25	—	ERJ-2GEJ
0603	1/10W	50V	100V	1.6	0.8	0.45	0.3	0.3	<10Ω: -100ppm/°C ~ +600ppm/°C;	ERJ-3GEY
0805	1/8W	150V	200V	2	1.25	0.6	0.4	0.4	10Ω to 1MΩ: ±200ppm/°C;	ERJ-6GEY
1206	1/4W	200V	400V	302	1.6	0.6	0.5	0.5	1MΩ>: -400ppm/°C ~ +600ppm/°C	ERJ-8GEY

### Case Size 0603 (ERJ-3GEY Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
921601	0	864132	270	864108	2k	864124	22k
864095	1	864167	300	921811	2.2k	864212	51k
864159	2.2	921889	330	864183	3.9k	864247	62k
921635	10	921918	470	921942	4.7k	921758	100k
921854	33	864255	680	864239	5.6k	864141	270k
864191	47	864271	820	864263	6.8k	864175	330k
864221	56	921694	1k	864280	8.2k	921782	1M
921977	75	864079	1.2k	921723	10k	864204	4.7M
921660	100	864087	1.5k	864116	20k	864061	10M

### Case Size 0805 (ERJ-6GEY Series)

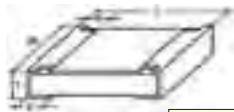
Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
922312	10	922460	220	864626	2.4k	864618	22k
864597	18	864642	300	864634	2.7k	864669	47k
864685	56	922494	330	864651	3.3k	864677	51k
864706	68	922523	470	864714	6.8k	864693	62k
864722	75	922558	820	922401	10k	922435	100k
922347	100	922371	1K	864589	16k	864562	10M
864571	150	864600	2.2k				

# Resistors & Linear Potentiometers

Color Code Legend			
New	Sale	Lower\$	QtySave



## 1% Precision Thick Film Resistors



For more Panasonic Resistors visit [www.Jameco.com](http://www.Jameco.com)

### 1% Single Value Resistor Pricing

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Unit				
Specify Part No. & Resistor Value Pricing				
0402 (Resistor Values Chart)	★	Call	Call	Call
1206 (Resistor Values Chart)	★	Call	Call	Call
0603 (Resistor Values Chart)	★	Call	Call	Call
0805 (Resistor Values Chart)	★	Call	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### Case Size 0402 (ERJ-2RKxxxxV Series)

Part No.	Ohms	Part No.	Ohms
862188	10 $\text{R} \blacktriangle$	862153	4.99k $\text{R} \blacktriangle$
862276	49.9 $\text{R} \blacktriangle$	862090	10k $\text{R} \blacktriangle$
920940	100 $\text{R} \blacktriangle$	862217	33.2k $\text{R} \blacktriangle$
862305	750 $\text{R} \blacktriangle$	862129	100k $\text{R} \blacktriangle$
921002	1k $\text{R} \blacktriangle$	862153	1M $\text{R} \blacktriangle$

### Case Size 1206 (ERJ-8ENFxxxxV Series)

Part No.	Ohms	Part No.	Ohms
864749	10 $\text{R} \blacktriangle$	864731	1k $\text{R} \blacktriangle$
864765	15 $\text{R} \blacktriangle$	864773	1.96k $\text{R} \blacktriangle$
864790	49.9 $\text{R} \blacktriangle$	864781	2.21k $\text{R} \blacktriangle$
864757	124 $\text{R} \blacktriangle$	864802	6.34k $\text{R} \blacktriangle$
864811	681 $\text{R} \blacktriangle$	922582	10k $\text{R} \blacktriangle$

Case Size	Power Rating @ 70°C	Max. RCWV	Max. Overload Voltage	Dimensions (mm)					Temperature Coefficient	Panasonic Series No.
				L	W	a	b	t		
0402	1/16W	50V	100V	1	0.5	0.2	0.25	0.35	10 - 1M $\Omega$ $\pm$ 100ppm/°C	ERJ-2RKxxxxV
0603	1/16W - (1/10W)	50V	100V	1.6	0.8	0.3	0.3	0.45	10 - 1M $\Omega$ $\pm$ 100ppm/°C	ERJ-3EKxxxxV
0805	1/10W - (1/8W)	150V	200V	2	1.25	0.4	0.4	0.6	10 - 2.2M $\pm$ 100ppm/°C	ERJ-6ENFxxxxV
1206	1/8W - (1/4W)	200V	400V	3.2	1.6	0.5	0.5	0.6	10 - 2.2M $\pm$ 100ppm/°C	ERJ-8ENFxxxxV

### Case Size 0603 (ERJ-3EKxxxxV Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
921184	10 $\text{R} \blacktriangle$	863666	464 $\text{R} \blacktriangle$	863842	5.23k $\text{R} \blacktriangle$	863738	47k $\text{R} \blacktriangle$
862840	22.1 $\text{R} \blacktriangle$	863691	470 $\text{R} \blacktriangle$	863973	5.76k $\text{R} \blacktriangle$	921483	47.5k $\text{R} \blacktriangle$
863287	30.1 $\text{R} \blacktriangle$	863771	499 $\text{R} \blacktriangle$	864010	7.15k $\text{R} \blacktriangle$	921512	49.9k $\text{R} \blacktriangle$
863501	37.4 $\text{R} \blacktriangle$	863990	619 $\text{R} \blacktriangle$	864036	7.5k $\text{R} \blacktriangle$	863922	56.2k $\text{R} \blacktriangle$
921547	49.9 $\text{R} \blacktriangle$	921096	1k $\text{R} \blacktriangle$	921125	10k $\text{R} \blacktriangle$	864028	71.5k $\text{R} \blacktriangle$
863893	54.9 $\text{R} \blacktriangle$	862410	1.1k $\text{R} \blacktriangle$	862381	10.2k $\text{R} \blacktriangle$	864052	97.6k $\text{R} \blacktriangle$
921571	75 $\text{R} \blacktriangle$	862663	1.87k $\text{R} \blacktriangle$	862487	13.3k $\text{R} \blacktriangle$	921150	100k $\text{R} \blacktriangle$
864044	90.9 $\text{R} \blacktriangle$	921272	2k $\text{R} \blacktriangle$	921248	15k $\text{R} \blacktriangle$	862452	110k $\text{R} \blacktriangle$
921037	100 $\text{R} \blacktriangle$	862962	2.43k $\text{R} \blacktriangle$	862559	15.4k $\text{R} \blacktriangle$	862698	187k $\text{R} \blacktriangle$
921213	150 $\text{R} \blacktriangle$	863041	2.49k $\text{R} \blacktriangle$	862583	17.4k $\text{R} \blacktriangle$	863113	249k $\text{R} \blacktriangle$
862532	154 $\text{R} \blacktriangle$	863172	2.94k $\text{R} \blacktriangle$	921301	20k $\text{R} \blacktriangle$	863201	294k $\text{R} \blacktriangle$
862621	178 $\text{R} \blacktriangle$	863367	3.24k $\text{R} \blacktriangle$	862938	23.7k $\text{R} \blacktriangle$	863252	301k $\text{R} \blacktriangle$
862743	200 $\text{R} \blacktriangle$	863471	3.48k $\text{R} \blacktriangle$	863017	24.3k $\text{R} \blacktriangle$	863439	332k $\text{R} \blacktriangle$
862815	221 $\text{R} \blacktriangle$	863543	3.92k $\text{R} \blacktriangle$	863084	24.9k $\text{R} \blacktriangle$	863615	392k $\text{R} \blacktriangle$
862882	237 $\text{R} \blacktriangle$	921416	4.02k $\text{R} \blacktriangle$	863130	27.4k $\text{R} \blacktriangle$	862330	1M $\text{R} \blacktriangle$
921387	249 $\text{R} \blacktriangle$	921441	4.75k $\text{R} \blacktriangle$	863324	31.6k $\text{R} \blacktriangle$		
863391	332 $\text{R} \blacktriangle$	863818	5.11k $\text{R} \blacktriangle$	863586	39.2k $\text{R} \blacktriangle$		

### Case Size 0805 (ERJ-6ENFxxxxV Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
922128	10 $\text{R} \blacktriangle$	864538	750 $\text{R} \blacktriangle$	864482	4.75k $\text{R} \blacktriangle$	922216	22.1k $\text{R} \blacktriangle$
864351	18.2 $\text{R} \blacktriangle$	864546	825 $\text{R} \blacktriangle$	922259	4.99k $\text{R} \blacktriangle$	864386	24.9k $\text{R} \blacktriangle$
922283	49.9 $\text{R} \blacktriangle$	922005	1k $\text{R} \blacktriangle$	864491	5.11k $\text{R} \blacktriangle$	864423	33.2k $\text{R} \blacktriangle$
864503	56.2 $\text{R} \blacktriangle$	864319	1.2k $\text{R} \blacktriangle$	864520	6.81k $\text{R} \blacktriangle$	922064	100k $\text{R} \blacktriangle$
864298	100 $\text{R} \blacktriangle$	922152	2k $\text{R} \blacktriangle$	864554	9.09k $\text{R} \blacktriangle$	864378	221k $\text{R} \blacktriangle$
864335	150 $\text{R} \blacktriangle$	864360	2.21k $\text{R} \blacktriangle$	922030	10k $\text{R} \blacktriangle$	864431	332k $\text{R} \blacktriangle$
864415	332 $\text{R} \blacktriangle$	864394	2.94k $\text{R} \blacktriangle$	864327	14k $\text{R} \blacktriangle$	864440	357k $\text{R} \blacktriangle$
864458	392 $\text{R} \blacktriangle$	864407	3.01k $\text{R} \blacktriangle$	864343	15k $\text{R} \blacktriangle$	922099	1M $\text{R} \blacktriangle$
864474	464 $\text{R} \blacktriangle$	864466	4.53k $\text{R} \blacktriangle$	922187	20k $\text{R} \blacktriangle$	864301	1.1M $\text{R} \blacktriangle$



## Power Resistors

### 10 Series Current Sense Axial-Lead Wire Element Resistor

- Ideal for current sensing applications
- 2W, 2 terminal, 1% tolerance
- Terminals: solder plated copper or copper clad steel
- Encapsulation: silicon molding compound
- Derating: linearly from 100% @ 25°C to 0% @ 275°C
- Power rating: based on 25°C free air rating
- Overload: 5 x rated wattage for 5 seconds
- Dielectric withstanding voltage: 1000Vrms
- Insulation resistance: 1000M $\Omega$
- Thermal EMF:  $\pm$ 2 $\mu$ V/°C • Temp. range: -55°C to 275°C

Part No.	Product No.	Ohms	1	10	100
619516	12FR025	0.025 $\Omega$ .....	\$1.55	\$1.48	\$1.42

### Mounting Brackets

- Fits inside cores of 200, 210, & 270 type resistors
- Steel plated • For 8 & 12 Watt

Part No.	Product No.	Description	1	10	100
619575	5-100	Slotted .....	\$29.99	\$28.95	\$27.49

### 40 Series OHMICON<sup>®</sup>, Silicone-Ceramic Conformal Axial-Lead Wire Wound Resistors

- All welded construction
- Characterized by their low temperature coefficient & resistance shock
- Core: ceramic
- Tolerance 5%
- Applications: commercial, industrial & communication
- Stability under high-temperature conditions
- Coating: conformal silicone ceramic
- Terminals: solder coated, copper clad
- Derating: linearly from 100% @ 25°C to 0% @ 275°C
- Power rating: based on 25°C free air rating
- Overload: 5 x rated for under 5W; 10 x rated for 5W and over (for 5 seconds)
- Temperature coefficient: under 1 $\Omega$  =  $\pm$ 90ppm/°C; over 10 $\Omega$  =  $\pm$ 20ppm/°C

Part No.	Product No.	Ohms	1	10	100
619567	43JR10	0.1 $\Omega$ /3W ...	\$1.69	\$1.59	\$1.51



## 1/8-Watt 16mm Linear Taper

- Shaft length: 0.531"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotational angle: 300° ( $\pm$ 5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100M $\Omega$  @ 500VDC
- Tolerance: <1M $\Omega$  ( $\pm$ 20%);  $\geq$ 1M $\Omega$  ( $\pm$ 30%)
- Dielectric strength: 500VAC for 1 minute

Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$1.19	\$1.00	\$0.83	\$0.70

Part No.	Product No.	Ohms
286193	RV16A-10-20R1-B5K $\text{R} \blacktriangle$	5k
286206	RV16A-10-20R1-B10K $\text{R} \blacktriangle$	10k
286213	RV16A-10-20R1-B50K $\text{R} \blacktriangle$	50k
286855	RV16A-10-20R1-B100K $\text{R} \blacktriangle$	100k
286222	RV16A-10-20R1-B500K $\text{R} \blacktriangle$	500k
286231	RV16A-10-20R1-B1M $\text{R} \blacktriangle$	1M

See page 204 for our selection of Knobs



◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

$\text{R}$  RoHS compliant product

$\text{R}$  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## 1/5-Watt 16mm Linear Taper, Single Detent

- Shaft length: 0.335" • Center detent
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.55	\$1.30	\$1.20	\$1.08

Part No.	Product No.	Ohms
286353	RV16A-10-15R1-B1K-OC	1k
286388	RV16A-10-15R1-B10K-OC	10k
286408	RV16A-10-15R1-B50K-OC	50k
286417	RV16A-10-15R1-B100K-OC	100k



## 1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.374"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Total rotation angle: 270° (±5°)
- Rotation life: 100,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Terminal type: PC terminal (vertical; back)
- Switch contact resistance: <100mΩ
- Switch rating: 250VAC 10A



Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$2.39	\$1.98	\$1.80	\$1.63

Part No.	Product No.	Ohms
286767	RV16C-40-16F1-B5K	5k
286775	RV16C-40-16F1-B10K	10k
286791	RV16C-40-16F1-B500K	500k



## 1/5-Watt 16mm Linear Taper

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$1.38	\$1.20	\$1.05	\$0.96

Part No.	Product No.	Ohms
286249	RV16A-10-15R1-B1K	1k
286256	RV16A-10-15R1-B2K	2k
286265	RV16A-10-15R1-B5K	5k
286273	RV16A-10-15R1-B10K	10k
286282	RV16A-10-15R1-BF4	25k
286300	RV16AF-10-15R1-B54	50k
286302	RV16A-10-15R1-B15	100k
286310	RV16A-10-15R1-B250K	250k
286329	RV16A-10-15R1-B55	500k
286337	RV16A-10-15R1-B1M	1M

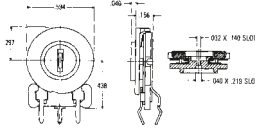
We're committed to providing you with the best service in the industry.



## 1/4-Watt Miniature Linear (±20%)

- X201 (19/32") Vertical Mount
- 15mm thick • Voltage rating: 350VDC
- Power rating: below 5kΩ – 1/4 watt @ 40°C; 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°

Blue Part No. = Limited Quantity Available



Cross Ref. Chart

Equivalent to:
CTS X201R
Bourns 3355X
PIHER PT15

Qty.	1	10	100	500
Price	\$0.45	\$0.39	\$0.35	\$0.29

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
94692	X201R1K	1k	94714	X201R10K	10k
35502	X201R252B	2.5k	94721	X201R50K	50k
94705	X201R5K	5k	94730	X201R100K	100k



## 1/4-Watt 24mm Audio Taper with SPST Switch (±20%)

- Shaft length: 0.590"
- Voltage rating: 250V
- Shaft diameter: 0.250"
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263636	RV24A01-10-15R1-A10K	10k
263645	RV24A01-10-15R1-A50K	50k



## 1/4-Watt 24mm Audio Taper (±20%)

- Shaft length: 0.335"
- Maximum voltage: 250V
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC

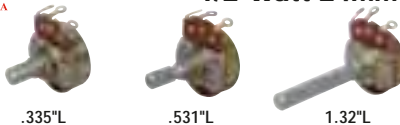


Qty.	1	10	100	500
Price	\$1.19	\$0.91	\$0.83	\$0.76

Part No.	Product No.	Ohms
255418	RV24A-10-15R1-A5K	5k
255426	RV24A-10-15R1-A10K	10k
255434	RV24A-10-15R1-A50K	50k
255442	RV24A-10-15R1-A100K	100k
255451	RV24A-10-15R1-A500K	500k
255469	RV24A-10-15R1-A1M	1M



## 1/2-Watt 24mm Linear Taper (±20%)



- Maximum voltage: 500V
- Rotational angle: 300° (±5°) • Solder lugs
- Withstanding voltage for 1 minute: 500VAC

Part Number	RV24A-10-15R1-Bxxx	RV24A-10-20K-Bxxx	RV24A-10-40R1-Bxxx
Shaft Length	0.335"L	0.531"L	1.32"L
1 pc.	\$1.19	\$1.55	\$1.15
10 pcs.	\$0.91	\$1.19	\$0.95
100 pcs.	\$0.83	\$1.09	\$0.86
500 pcs.	\$0.80	\$0.99	\$0.79



## 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.335"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263759	RV24A01-10-15R1-B500	500
263768	RV24A01-10-15R1-B1K	1k
263775	RV24A01-10-15R1-B2.5K	2.5k
263784	RV24A01-10-15R1-B5K	5k
263792	RV24A01-10-15R1-B10K	10k
263813	RV24A01-10-15R1-B50K	50k
263822	RV24A01-10-15R1-B100K	100k
263840	RV24A01-10-15R1-B250K	250k
263848	RV24A01F-10-15R1-B55	500k



## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key, Non-slotted shaft end
- Mounting hole: 0.3125"
- Maximum panel thickness: 0.1875"
- Shaft diameter: 0.25"
- Shaft length: 0.50"



Includes: Mounting hardware

Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$0.99	\$0.79	\$0.65	\$0.55

Part No	Cross Ref. No.	Ohms	Part No	Cross Ref. No.	Ohms
29050	P1K	1k	29103	P100K	100k
29196	P5K	5k	29066	P1MEG	1M
29081	P10K	10k			



## 2-Watt Linear Taper Wirewound (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825"
- Base length: 0.25"



Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	100	500
123960	PT1K	1k	\$4.09	\$3.70	\$3.28	\$2.96
123967	PT5K	5k	3.29	2.96	2.37	1.78

To order, replace "xxx" in the Part No. with the value to the right (e.g. - order RV24A-10-20K-B503 for a 50kΩ Alpha with 0.531"L Shaft).

500Ω — 501	50kΩ — 503
1kΩ — 102	100kΩ — 104
2kΩ — 202	250kΩ — 254
2.5kΩ — 252	500kΩ — 504
5kΩ — 502	1MΩ — 105
10kΩ — 103	2MΩ — 205
25kΩ — 253	5MΩ — 505

# Wirewound, Cermet, & Linear Taper

Color Code Legend			
New	Sale	Lower\$	QtySave

## Honeywell RV4N Style 2-Watt Linear Taper ( $\pm 10\%$ )

- 2W @ 70°C ambient
- Temp. range: -55°C to +120°C
- Non-rotational key
- Mounting hole: 0.375"
- Maximum panel thickness: 0.25"
- Shaft diameter: 0.25" • Shaft length: 0.875"

Includes: Mounting hardware

Qty.	1	10	25	50
Price	\$7.39	\$6.54	\$5.45	\$5.20

Part No.	Product No.	Military No.	Ohms
241568	53C3-100	RV4NAYSD101A	100
241584	53C3-250	RV4NAYSD251A	250
183610	53C3-500	RV4NAYSD501A	500
13936	53C3-1k	RV4NAYSD102A	1k
241613	53C3-2k	RV4NAYSD202A	2k
241621	53C3-2.5k	RV4NAYSD252A	2.5k
13995	53C3-5k	RV4NAYSD502A	5k
13952	53C3-10k	RV4NAYSD103A	10k
241648	53C3-15k	RV4NAYSD153A	15k
241656	53C3-20k	RV4NAYSD203A	20k
241664	53C3-25k	RV4NAYSD253A	25k
95417	53C3-50k	RV4NAYSD503A	50k
13979	53C3-100k	RV4NAYSD104A	100k
241681	53C3-250k	RV4NAYSD254A	250k
241699	53C3-350k	RV4NAYSD354A	350k
241728	53C3-1M	RV4NAYSD105A	1M



## 2-Watt 10-Turn Wirewound ( $\pm 5\%$ )

- Insulation resistance: (500VDC) 1000M $\Omega$  min.
- Absolute min. resistance: 1 $\Omega$  or 0.1% maximum
- Power rating: 3540 Series: 2W @ 70°C; 3590 Series: 2W @ 40°C
- Operating temp. range: +1°C to +125°C

### 3540S -1 Series

Part No.	Product No.	Ohms	1	10	50
183548	3540S-1-502	5k ...	\$12.79	\$12.35	\$12.26
183521	3540S-1-103	10k ...	12.99	12.79	12.59

### 3590S -1 Series, Plastic Bushing

Part No.	Product No.	Ohms	1	5	100
771112	3590S-1-102	1k	\$9.85	\$9.24	\$8.63
771121	3590S-1-103	10k	9.85	9.24	8.63
771147	3590S-1-203	20k	9.85	9.24	8.63
771139	3590S-1-104	100k	12.75	11.96	11.18

### 3590S -2 Series, Metal Bushing

Part No.	Product No.	Ohms	1	5	100
855818	3590S-2-502	5k	\$9.85	\$9.24	\$8.63
771155	3590S-2-103	10k	9.85	9.24	8.63
771163	3590S-2-203	20k	9.85	9.24	8.63

## Jameco ValuePro 5-Watt Linear Taper Wirewound ( $\pm 20\%$ )

- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"
- Shaft length: 0.67", except P/N 140522 (0.25")

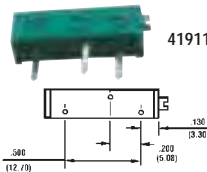
Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	50	100
140514	PW5B100	100	\$2.79	\$2.51	\$2.00	\$1.51
140522	PW5B500	500	2.89	2.45	2.35	2.19

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet ( $\pm 10\%$ )



- PC pins: 0.100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

Qty.	1	10	100	500
Price	\$ .92	\$ .99	\$ .89	\$ .75

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
181972	43P201	200	41873	43P20K	20k
41785	43P1K	1k	41911	43P50K	50k
41865	43P2K	2k	41849	43P100K	100k
41890	43P5K	5k	41806	43P1MEG	1M
41822	43P10K	10k			

### Cross Ref. Chart

Equivalent to:	
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mecopcal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P

## 1/2-Watt, 3/8" Square, Single-Turn Cermet ( $\pm 10\%$ )

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: 0.100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1" († 43060 & 105216: 0.2")

Qty.	1	10	100	500
Price	\$ .85	\$ .79	\$ .69	\$ .49

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
43123	63P500	500	43107	63P50K	50k
42964	63P1K	1k	43027	63P100K	100k
43043	63P2K	2k	43060	63P300K	300k
43078	63P5K	5k	63212	63P500K	500k
43001	63P10K	10k	42981	63P1MEG	1M
43051	63P20K	20k	105216	63P2MEG	2M

### Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopcal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

## 3/4-W, 3/4" Rectangular, 15-Turn Sealed Cermet Trimming Side Adjust ( $\pm 10\%$ )

### 3009P Series - 3/4W, Y-layout solder pins

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance: 100M $\Omega$  min. (500VDC)
- Contact resistance variation: 1% or 1 $\Omega$  max.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.75W @ 70°C (400V max.)

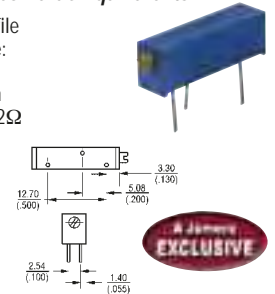
Part No.	Product No.	Ohms	1	5	100
768888	3009P-1-500	50	\$2.56	\$2.09	\$1.71
768861	3009P-1-102	1k	2.56	2.09	1.71
768896	3009P-1-502	5k	2.56	2.09	1.71
768870	3009P-1-203	20k	2.75	2.19	1.78
768909	3009P-1-503	50k	2.56	2.09	1.71

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## Jameco ValuePro 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometer Side Adjustment ( $\pm 10\%$ )

### Bourns 3006P Series Value Equivalents

- Low PC board profile
- Temperature range: -55°C to 125°C
- Absolute minimum resistance: 1% or 2 $\Omega$
- Contact resistance variation: 1% or 1 $\Omega$  maximum
- Power rating: 0.75W @ 70°C (400V maximum)



♣ Blue Part No. = Limited Quantity Available

Qty.	1	10	50	100
Price	\$1.25	\$1.15	\$ .99	\$ .89

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
241234	3006P-101	100	241306	3006P-203	20k
241242	3006P-201	200	241314	3006P-253	25k
241252	3006P-501	500	241323	3006P-503	50k
241269	3006P-102	1k	241332	3006P-104	100k
241278	3006P-202	2k	241350	3006P-204	200k
241286	3006P-502	5k	241365	3006P-504	500k
241294	3006P-103	10k	241373	3006P-105	1M

## Bourns 3/4-W, 3/4" Rectangular, Multi-Turn Cermet Trimming Side Adjustment ( $\pm 10\%$ )

### 3006P Series - 3/4W, Y Layout Solder Pins

- Resistance tolerance:  $\pm 10\%$
- 15 turns nominal
- Insulation resistance: (500VDC) 1,000M $\Omega$  min.
- Contact resistance variation: 1% or 1 $\Omega$  max.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.75W @ 70°C (400V max.)



For more Bourns Potentiometers visit [www.jameco.com](http://www.jameco.com)

Qty.	1	10	50	100
Price	\$1.55	\$1.36	\$1.26	\$1.09

Part No.	Product No.	Ohms
768781	3006P-1-200	20
768811	3006P-1-500	50
695990	3006P-1-101	100
696044	3006P-1-201	200
696087	3006P-1-501	500
768829	3006P-1-501LF	500
696001	3006P-1-102	1k
768765	3006P-1-102LF	1k
696052	3006P-1-202	2k
768790	3006P-1-202LF	2k
696095	3006P-1-502	5k
696010	3006P-1-103	10k
768773	3006P-1-103LF	10k
696061	3006P-1-203	20k
768802	3006P-1-253	25k
696108	3006P-1-503	50k
696028	3006P-1-104	100k
696079	3006P-1-204	200k
696116	3006P-1-504	500k
696036	3006P-1-105	1M

## 1-W, 1 1/4" Rectangular, Multi-Turn Trimming Side Adjustment (±5%)

### 3057Y Series — Y-Layout Solder Pins

- Resistance tolerance: ±5%
- 22 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Power rating: 1W @ 70°C
- Temperature range: -55°C to 150°C



Part No.	Product No.	Ohms	1	10	100
768950	3057Y-1-500♣	50 ...	\$17.90	\$16.85	\$16.98

## 1-W, 1 1/4" Rectangular, Multi-Turn Cermet Trimmer Side Adjustment (±10%)

- Resistance tolerance: ±10%
- 22 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Contact resistance variation: ±1% or 1Ω max.
- Power rating: 1W @ 70°C (400V max.)
- Temperature range: -55°C to 150°C



### 3059J Series — Y-Layout Hooked Pins

Part No.	Product No.	Ohms	1	5	100
768968	3059J-1-102♣	1k ...	\$24.71	\$21.62	\$20.35
768976	3059J-1-103M♣*	10k ...	25.09	22.83	22.06

\* Panel mount

### 3059Y Series — Y-Layout Pins

Part No.	Product No.	Ohms	1	5	100
768984	3059Y-1-103♣	10k ...	\$5.09	\$4.90	\$4.07
768992	3059Y-1-104♣	100k ...	5.09	4.90	4.07

## 1/4-W, 4mm Square SMD, Multi-Turn Sealed Cermet Trimmer Top Adjust (±10%)

### 3214W Series

- Resistance tolerance: ±10%
- 15 turns nominal
- Insulation resistance: (500VDC) 100MΩ min.
- Contact resistance variation: 1% or 3Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 85°C (300V max.)



Part No.	Product No.	Ohms	1	10	100
696212	3214W-1-203E♣ 20k	.....	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

## 3/4-Watt, 1/2" Square, Multi-Turn Cermet Trimmer Side Adjustment (±10%)

### 3252W Series — In-Line Layout Solder Pins

- Resistance tolerance: ±10%
- 25 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Contact resistance variation: ±1% or 2Ω
- Power rating: 0.75W @ 85°C (400V max.)
- Temperature range: -65°C to 150°C



Part No.	Product No.	Ohms	1	5	100
769012	3252W-1-202♣	2k ...	\$13.56	\$11.06	\$9.04
769021	3252W-1-502♣	5k ...	13.56	11.06	9.04
769004	3252W-1-103♣	10k ...	13.56	11.06	9.04

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## 1/4-Watt, 1/4" Multi-Turn, Cermet Trimming Potentiometer (±10%)

- Resistance tolerance: ±10%
- Y-layout solder pins
- Sealed cermet
- 12 turns nominal
- Insulation res. (500VDC): 1,000MΩ
- Contact resistance variation: 3% or 3Ω
- Power rating: 0.25W @ 85°C



### 3262P Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
769039	3262P-1-103♣	10k ...	\$13.44	\$10.94	\$8.96

### 3262W Series — Top Adjust. (rectangular)

Part No.	Product No.	Ohms	1	5	100
769047	3262W-1-201♣	200 ...	\$13.44	\$10.96	\$8.96
769063	3262W-1-502♣	5k ...	10.19	9.27	8.96
696335	3262W-1-103♣	10k ...	14.25	10.96	8.96
769055	3262W-1-203♣	20k ...	10.19	9.27	8.96

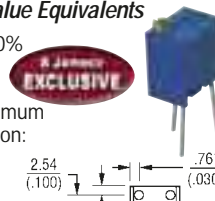
### 3262X Series — Side Adjust. (rectangular)

Part No.	Product No.	Ohms	1	5	100
769080	3262X-1-500♣	50 ...	\$13.44	\$10.95	\$8.96
769071	3262X-1-104♣	100k ...	13.44	10.94	8.96

## 1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment (±10%)

### Bourns 3266W Series Value Equivalents

- Resistance tolerance: ±10%
- 12 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ minimum
- Contact resistance variation: 3% or 3Ω maximum (whichever is greater)
- Absolute min. resistance: 1% or 2Ω maximum (whichever is greater)
- Power rating: 0.25W @ 70°C (300V maximum)



Qty.	1	10	50	100
Price	\$2.29	\$1.99	\$1.93	\$1.83

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254609	3266W-500	50	254684	3266W-203	20k
254617	3266W-101	100	254692	3266W-253	25k
254626	3266W-201	200	254706	3266W-503	50k
254633	3266W-501	500	254714	3266W-104	100k
254642	3266W-102	1k	254722	3266W-204	200k
254651	3266W-202	2k	254730	3266W-504	500k
254669	3266W-502	5k	254749	3266W-105	1M
254677	3266W-103	10k			

## Pocket Trimmer Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



♣ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
153314	Trimmer tool ♣	\$1.35	\$1.22	\$1.09

## 1/4" Square, Multi-Turn Trimming Side Adjustment (±10%)

- 1/4 Watt
- Resistance tolerance: ±10%
- Y-layout solder pins
- Sealed cermet
- 12 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Contact resistance variation: 3% or 3Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C (300V max.)



### 3266X Series

Part No.	Product No.	Ohms	1	5	100
769194	3266X-1-101♣	100 ...	\$2.89	\$2.36	\$2.24
769207	3266X-1-201♣	200 ...	2.85	2.34	2.24
696503	3266X-1-202♣	2k ...	2.85	2.34	2.24
696538	3266X-1-502♣	5k ...	2.85	2.34	2.24
696482	3266X-1-103	10k ...	2.79	2.34	2.24
696511	3266X-1-203♣	20k ...	3.35	2.73	2.32
769215	3266X-1-203LF♣	20k ...	2.85	2.34	2.24
696546	3266X-1-503♣	50k ...	2.85	2.34	2.24
769223	3266X-1-204♣	200k ...	2.55	2.34	2.24

### 3266W Series

Part No.	Product No.	Ohms	1	5	50
769160	3266W-1-500♣	50 ...	\$2.85	\$2.34	\$2.24
696343	3266W-1-101♣	100 ...	2.85	2.34	2.24
696394	3266W-1-201♣	200 ...	2.85	2.34	2.24
696431	3266W-1-501♣	500 ...	2.85	2.34	2.24
769178	3266W-1-501LF♣	500 ...	2.85	2.34	2.24
696351	3266W-1-102♣	1k ...	2.85	2.34	2.24
696407	3266W-1-202♣	2k ...	2.85	2.34	2.24
696440	3266W-1-502♣	5k ...	2.85	2.34	2.24
769186	3266W-1-502LF♣	5k ...	2.85	2.34	2.24
696360	3266W-1-103♣	10k ...	2.85	2.34	2.24
696415	3266W-1-203♣	20k ...	2.85	2.34	2.24
769151	3266W-1-253♣	25k ...	2.85	2.34	2.24
696458	3266W-1-503♣	50k ...	2.85	2.34	2.24
696378	3266W-1-104♣	100k ...	2.85	2.34	2.24
696466	3266W-1-504♣	500k ...	2.85	2.34	2.24
696386	3266W-1-105♣	1M ...	2.85	2.34	2.24

### 3266P Series

Part No.	Product No.	Ohms	1	5	100
769101	3266P-1-202♣	2k ...	\$2.85	\$2.34	\$2.24
769143	3266P-1-502♣	5k ...	2.85	2.34	2.24
769098	3266P-1-103	10k ...	3.19	2.79	2.63
769119	3266P-1-203♣	20k ...	2.55	2.34	2.24
769127	3266P-1-203LF♣	20k ...	2.85	2.34	2.24
769135	3266P-1-253♣	25k ...	2.85	2.34	2.24

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# Multi-Turn Trimming Potentiometers

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)



RoHS Compliant Product  
RoHS Also Available

Details  
on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

## 1/4-W, 1/4" Square SMD, Multi-Turn Sealed Cermet Trimming Pot (±10%)

- Resistance tolerance: ±10%
- 12 turns nominal
- Insulation resistance (500VDC): 1000MΩ min.
- Contact resistance variation: 3% or 3Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 85°C (300V max.)



### 3269P Series — Side Adjustment

Part No.	Product No.	Ohms	1	10	50
696554	3269P-1-103	10k	\$3.55	\$2.84	\$2.78

### 3269W Series — Top Adjustment

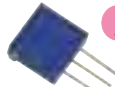
Part No.	Product No.	Ohms	1	10	50
853484	3269W-1-201	200	\$3.49	\$2.84	\$2.78
853441	3269W-1-103	10k	★	Call	Call
853468	3269W-1-104	100k	3.55	2.87	2.78

★ Please call or visit our website for minimum order quantity and pricing.

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

## 1-Watt, 3/8" Square, 25-Turn Trimming Potentiometers (±5%)

- Resistance tolerance: ±5%
- In-line layout solder pins
- Insulation resistance (500VDC): 1,000MΩ min.
- Power rating: 1W @ 85°C
- Temperature range: -65°C to 150°C



3290H

### 3290H Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
769231	3290H-1-102	1k	\$18.89	\$17.63	\$16.36
769240	3290H-1-103	10k	\$27.09	\$21.23	\$17.04
769258	3290H-1-203	20k	\$24.54	\$21.23	\$17.04

### 3290W Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
769266	3290W-1-101	100	\$27.09	\$21.23	\$17.04
769274	3290W-1-503	50k	\$24.54	\$21.23	\$17.04

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometer (±10%)

- Resistance tolerance: ±10%
- 25 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.5W @ 85°C (400V max.)
- Temperature range: -65°C to 150°C



3292W

### 3292L — Wires, Panel Mount

Part No.	Product No.	Ohms	1	5	100
769282	3292L-1-203M	20k	\$29.45	\$27.99	\$26.59

### 3292P — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	5	100
769291	3292P-1-202	2k	\$14.57	\$11.88	\$9.72

### 3292W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
769303	3292W-1-101	100	\$14.57	\$11.88	\$9.72

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

Ⓡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometer (±10%)

- Resistance tolerance: ±10%
- Absolute min. resistance: 1% or 2Ω max.
- Temperature range: -55°C to 150°C
- Insulation resistance (500VDC): 1,000MΩ min.
- 25 turns nominal
- Power rating: 0.5W @ 70°C (300V max.)

### 3296P — Side Adjust, Y-Layout Solder Pins

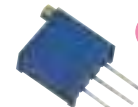
Part No.	Product No.	Ohms	1	5	100
769354	3296P-1-502	5k	\$1.43	\$1.34	\$1.46
853513	3296P-1-103	10k	1.62	1.43	1.34
769338	3296P-1-203	20k	1.43	1.34	1.30
769362	3296P-1-503	50k	1.62	1.43	1.34
769311	3296P-1-104	100k	1.62	1.43	1.34
769346	3296P-1-204	200k	1.43	1.34	1.73
769320	3296P-1-105	1M	1.43	1.34	1.77

### 3296W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
769371	3296W-1-100	10	\$1.62	\$1.43	\$1.34
769418	3296W-1-200	20	1.43	1.34	1.55
853732	3296W-1-500	50	1.62	1.43	1.34
853530	3296W-1-101	100	1.62	1.43	1.34
853636	3296W-1-201	200	1.62	1.43	1.34
853759	3296W-1-501	500	1.62	1.43	1.34
769469	3296W-1-501LF	500	1.62	1.43	1.34
853556	3296W-1-102	1k	1.62	1.43	1.34
769389	3296W-1-102LF	1k	1.62	1.43	1.34
853652	3296W-1-202	2k	1.62	1.43	1.34
769426	3296W-1-202LF	2k	1.62	1.43	1.34
853775	3296W-1-502	5k	1.62	1.43	1.34
769477	3296W-1-502LF	5k	1.62	1.43	1.34
853572	3296W-1-103	10k	1.62	1.43	1.34
769397	3296W-1-103LF	10k	1.62	1.43	1.34
853679	3296W-1-203	20k	1.62	1.43	1.34
769434	3296W-1-203LF	20k	1.62	1.43	1.34
853716	3296W-1-253	25k	1.62	1.43	1.34
853791	3296W-1-503	50k	1.62	1.43	1.34
769485	3296W-1-503LF	50k	1.62	1.43	1.34
853599	3296W-1-104	100k	1.62	1.43	1.34
769400	3296W-1-104LF	100k	1.62	1.43	1.34
853695	3296W-1-204	200k	1.62	1.43	1.34
769451	3296W-1-254	250k	1.43	1.34	1.55
853812	3296W-1-504	500k	1.62	1.43	1.34
769493	3296W-1-504LF	500k	1.62	1.43	1.34
853610	3296W-1-105	1M	1.62	1.43	1.34
769442	3296W-1-205	2M	1.43	1.34	1.55
769506	3296W-1-505	5M	1.62	1.43	1.34

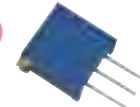
### 3296X — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
769514	3296X-1-100	10	\$1.43	\$1.34	\$1.55
853839	3296X-1-101	100	1.62	1.43	1.34
769531	3296X-1-201	200	1.62	1.43	1.34
853960	3296X-1-501	500	1.62	1.43	1.34
853855	3296X-1-102	1k	1.62	1.43	1.34
853935	3296X-1-202	2k	1.62	1.43	1.34
769549	3296X-1-202LF	2k	1.62	1.43	1.34
853986	3296X-1-502	5k	1.62	1.43	1.34
853871	3296X-1-103	10k	1.62	1.43	1.34
769522	3296X-1-103LF	10k	1.62	1.43	1.34
853951	3296X-1-203	20k	1.62	1.43	1.34
854006	3296X-1-503	50k	1.62	1.43	1.34
853898	3296X-1-104	100k	1.62	1.43	1.34
769557	3296X-1-204	200k	1.62	1.43	1.34
769565	3296X-1-254	250k	1.43	1.34	1.46
854022	3296X-1-504	500k	1.62	1.43	1.34
853919	3296X-1-105	1M	1.62	1.43	1.34

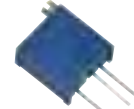


3296W

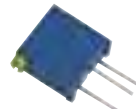
NEW



3296X



3296Y



3296Z

### 3296Y — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	50
240389	3296Y-1-501	500	\$1.99	\$1.85	\$1.66
1157000	3296Y-1-501LF	500	1.35	1.18	1.11
240397	3296Y-1-102	1k	1.99	1.85	1.66
1156947	3296Y-1-102LF	1k	1.35	1.18	1.11
240400	3296Y-1-202	2k	1.99	1.85	1.66
1156971	3296Y-1-202LF	2k	1.35	1.18	1.11
240418	3296Y-1-502	5k	1.99	1.85	1.66
769581	3296Y-1-502LF	5k	1.62	1.43	1.34
240426	3296Y-1-103	10k	1.99	1.85	1.66
1156955	3296Y-1-103LF	10k	1.35	1.18	1.11
240434	3296Y-1-203	20k	1.99	1.85	1.66
1156998	3296Y-1-203LF	20k	1.35	1.18	1.11
240451	3296Y-1-503	50k	1.99	1.85	1.66
1157018	3296Y-1-503LF	50k	1.35	1.18	1.11
240469	3296Y-1-104	100k	1.99	1.85	1.66
1156963	3296Y-1-104LF	100k	1.35	1.18	1.11
769573	3296Y-1-204	200k	1.62	1.43	1.34
240493	3296Y-1-105	1M	1.99	1.85	1.66

### 3296Z — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	5	100
769637	3296Z-1-501	500	\$1.43	\$1.34	\$1.77
854049	3296Z-1-102	1k	1.62	1.43	1.34
769611	3296Z-1-202	2k	1.62	1.43	1.34
854081	3296Z-1-502	5k	1.62	1.43	1.34
854065	3296Z-1-103	10k	1.62	1.43	1.34
769590	3296Z-1-103LF	10k	1.62	1.43	1.34
769629	3296Z-1-203	20k	1.62	1.43	1.34
769602	3296Z-1-104	100k	1.62	1.43	1.34
769645	3296Z-1-504	500k	1.62	1.43	1.34

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For more Bourns Potentiometers, visit our website today!

# Multi-Turn Trimming Potentiometers



## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometer (±10%)

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

- Resistance tolerance: ±10%
- 25 turns nominal
- Insulation resistance (500VDC): 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.5W @ 70°C (300V max.)
- Temperature range: -55°C to 125°C

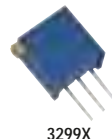
NEW



3299P



3299W



3299X



3299Y



3299Z

### 3299P — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	5	100
769670	3299P-1-501	500	\$2.75	\$2.28	\$1.97
769653	3299P-1-102	1k	2.75	2.23	1.97
854129	3299P-1-202	2k	2.75	2.23	1.97
854145	3299P-1-502	5k	2.75	2.23	1.97
854102	3299P-1-103	10k	2.75	2.23	1.97
769688	3299P-1-503	50k	2.75	2.23	1.97
769661	3299P-1-104	100k	2.75	2.23	1.97

### 3299W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	50
238553	3299W-1-100	10	\$2.39	\$2.25	\$1.99
1157211	3299W-1-500LF	50	2.65	2.28	2.14
238588	3299W-1-101	100	2.39	2.25	1.99
1157131	3299W-1-101LF	100	2.65	2.28	2.14
238596	3299W-1-201	200	2.39	2.25	1.99
1157173	3299W-1-201LF	200	2.65	2.28	2.14
238609	3299W-1-501	500	2.39	2.25	1.99
1157229	3299W-1-501LF	500	2.65	2.28	2.14
183556	3299W-1-102	1k	2.39	2.25	1.99
1157149	3299W-1-102LF	1k	2.65	2.28	2.14
238617	3299W-1-202	2k	2.39	2.25	1.99
1157181	3299W-1-202LF	2k	2.65	2.28	2.14
238625	3299W-1-502	5k	2.39	2.25	1.99
769725	3299W-1-502LF	5k	2.59	2.08	1.83
183564	3299W-1-103	10k	2.39	2.25	1.99
769696	3299W-1-103LF	10k	2.59	2.08	1.83
238633	3299W-1-203	20k	2.39	2.25	1.99
769717	3299W-1-203LF	20k	2.59	2.08	1.83

### 3299W — Top Adjust, In-Line Solder Pins (Cont.)

Part No.	Product No.	Ohms	1	10	100
1157202	3299W-1-253LF	25k	\$2.65	\$2.28	\$2.14
238650	3299W-1-503	50k	2.39	2.25	1.99
1157237	3299W-1-503LF	50k	2.65	2.28	2.14
183572	3299W-1-104	100k	2.39	2.25	1.99
769709	3299W-1-104LF	100k	2.59	2.59	2.08
854161	3299W-1-204	200k	2.59	2.07	1.83
1157190	3299W-1-204LF	200k	2.65	2.28	2.14
238668	3299W-1-254	250k	2.39	2.25	1.99
238676	3299W-1-504	500k	2.65	2.37	2.10
1157245	3299W-1-504LF	500k	2.65	2.28	2.14
238684	3299W-1-105	1M	2.39	2.25	1.99
1157165	3299W-1-105LF	1M	2.65	2.28	2.14

### 3299X — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
769733	3299X-1-101	100	\$2.59	\$2.08	\$1.83
769768	3299X-1-201	200	2.59	2.08	1.83
769784	3299X-1-501	500	2.59	2.08	1.83
854188	3299X-1-102	1k	2.59	2.08	1.83
854225	3299X-1-202	2k	2.59	2.08	1.83
854268	3299X-1-502	5k	2.59	2.08	1.83
854209	3299X-1-103	10k	2.59	2.08	1.83
854241	3299X-1-203	20k	2.59	2.08	1.83
769792	3299X-1-503	50k	2.59	2.08	1.83
769741	3299X-1-104	100k	2.59	2.08	1.83
769776	3299X-1-204	200k	2.85	2.23	1.83
769750	3299X-1-105	1M	2.59	2.08	1.83

### 3299Y — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
1157384	3299Y-1-101LF	100	\$2.65	\$2.28	\$2.14
1157405	3299Y-1-201LF	200	2.65	2.28	2.14
240566	3299Y-1-501R	500	2.39	2.19	1.79
1157448	3299Y-1-501LF	500	2.65	2.28	2.14
240573	3299Y-1-102	1k	2.39	2.19	1.79
1157392	3299Y-1-102LF	1k	2.65	2.28	2.14
240581	3299Y-1-202	2k	2.39	2.19	1.79
1157413	3299Y-1-202LF	2k	2.65	2.28	2.14
240590	3299Y-1-502	5k	2.39	2.19	1.79
240591	3299Y-1-502R	5k	2.39	2.19	1.79
769830	3299Y-1-502LF	5k	2.59	2.08	1.83
240602	3299Y-1-103	10k	2.39	2.19	1.79
769805	3299Y-1-103LF	10k	2.59	2.08	1.83
1157430	3299Y-1-203LF	20k	2.65	2.28	2.14
1157456	3299Y-1-503LF	50k	2.65	2.28	2.14
769813	3299Y-1-104LF	100k	2.59	2.08	1.83
769821	3299Y-1-204	200k	2.59	2.08	1.83
240653	3299Y-1-254	250k	2.39	2.19	1.79

### 3299Z — Side Adjust, Y-Layout Solder Pins

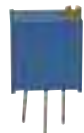
Part No.	Product No.	Ohms	1	5	100
769899	3299Z-1-201	200	\$2.75	\$2.23	\$1.97
769848	3299Z-1-102	1k	2.75	2.23	1.97
769856	3299Z-1-103	10k	2.95	2.46	1.99
769864	3299Z-1-103LF	10k	2.75	2.23	1.97
769901	3299Z-1-203	20k	2.65	2.23	1.97
769910	3299Z-1-503	50k	3.05	2.40	1.97
769872	3299Z-1-104	100k	2.75	2.23	1.97
769881	3299Z-1-105	1M	2.75	2.23	1.97

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.



## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Top Adjustment (±10%)



3296Y Series



3299W Series



3299Y Series

### 3296Y/3299Y – Y Layout Solder Pins and 3299W – In-Line Solder Pins

- Resistance tolerance: ±10%
- 25 turns nominal
- Insulation resistance: (500VDC) 1000MΩ min.
- Contact resistance variation: 1% or 3Ω max.
- Absolute minimum resistance: 1% or 2Ω max.
- Power rating: 0.5W @ 70°C (300V max.)



To order, replace "xxx" in the Part No. with the value to the right (e.g. – order 3296Y-503 for a 50kΩ ValuePro Series 3296Y).

Series	3296Y	3299W	3299Y
Part Number	3296Y-xxx	3299W-xxx	3299Y-xxx
1 pc.	\$1.69	\$1.99	\$1.99
10 pcs.	\$1.56	\$1.82	\$1.82
100 pcs.	\$1.42	\$1.53	\$1.53
500 pcs.	\$1.28	\$1.35	\$1.35

10Ω — 100	10kΩ — 103
20Ω — 200	20kΩ — 203
50Ω — 500	25kΩ — 253
100Ω — 101	50kΩ — 503
200Ω — 201	100kΩ — 104
500Ω — 501	250kΩ — 254
1kΩ — 102	500kΩ — 504
2kΩ — 202	1MΩ — 105
5kΩ — 502	2MΩ — 205



## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### Bourns 3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Top adjustment
- Terminals: solderable pins

Blue Part No. = Limited Quantity Available

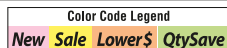


Qty.	1	10	50	100
Price	\$1.69	\$1.53	\$1.29	\$1.21

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254490	3329P-102	1k	254554	3329P-503	50k
254502	3329P-202	2k	254561	3329P-104	100k
254512	3329P-502	5k	254570	3329P-204	200k
254530	3329P-103	10k	254597	3329P-105	1M
254538	3329P-203	20k			

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Order 24/7 Toll Free 1-800-831-4242

# Trimming Potentiometers

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

## 1/2-W, 1/4" Round, Trimmer Potentiometers (±10%)

- Resistance tolerance: ±10%
- Absolute min. res.: 1% or 2Ω
- Adjustment angle: 240° nominal
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 80°C
- Temperature range: -55°C to 150°C

NEW



3329H

### 3329H Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770064	3329H-1-500LF	50	\$2.19	\$1.92	\$1.64
770021	3329H-1-101	100	2.19	1.92	1.64
854436	3329H-1-201	200	2.19	1.92	1.64
854508	3329H-1-501	500	2.19	1.92	1.64
854356	3329H-1-102	1k	2.19	1.92	1.64
854452	3329H-1-202	2k	2.19	1.92	1.64
854532	3329H-1-502	5k	2.19	1.92	1.64
854372	3329H-1-103	10k	2.35	2.04	1.92
854487	3329H-1-203	20k	2.19	1.92	1.64
770048	3329H-1-203LF	20k	2.19	1.92	1.64
854567	3329H-1-503	50k	2.19	1.92	1.64
854399	3329H-1-104	100k	2.19	1.92	1.64
770030	3329H-1-104LF	100k	2.19	1.92	1.64
770056	3329H-1-204	200k	2.19	1.92	1.64
854410	3329H-1-105	1M	2.19	1.92	1.64

### 3329P Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770099	3329P-1-500	50	\$2.19	\$1.92	\$1.64
854583	3329P-1-202	2k	2.19	1.92	1.64
770072	3329P-1-203	20k	2.19	1.92	1.64
770101	3329P-1-503	50k	2.19	1.92	1.64
770081	3329P-1-204	200k	2.19	1.92	1.64
770110	3329P-1-504	500k	2.19	1.92	1.64

### 3329W Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
770128	3329W-1-102	1k	\$2.55	\$2.26	\$1.97
770144	3329W-1-202	2k	2.55	2.26	1.97
770161	3329W-1-502	5k	2.55	2.26	1.97
770136	3329W-1-103	10k	2.55	2.26	1.97
770152	3329W-1-203	20k	2.55	2.26	1.97

### 3329X Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
770179	3329X-1-103	10k	\$2.95	\$2.40	\$1.97

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

## 0.2-Watt, 6mm Round Trimming Potentiometer (±25%)

### 3306P Series — Top Adjust, Y-Layout Pins

- Resistance tolerance: ±25%
- Absolute min. resistance: 2% max.
- Adjustment angle: 215° nominal
- Power rating: 0.2W @ 70°C
- Temperature range: -25°C to 100°C

NEW



769979

Part No.	Product No.	Ohms	1	5	100
769936	3306P-1-102	1k	\$.32	\$.274	\$.382
769961	3306P-1-502	5k	.32	.274	.382
769944	3306P-1-103	10k	.32	.274	.382
769979	3306P-1-503	50k	.32	.274	.382
769952	3306P-1-104	100k	.32	.274	.382

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 1/2-Watt, 5/16" Round Trimming Pots (±10%)

- Resistance tolerance: ±10%
- 4 turns nominal
- Absolute min. resistance: 1% or 2Ω max.
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 80°C
- Temperature range: -55°C to 150°C

NEW



3339W

### 3339H Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770187	3339H-1-103	10k	\$5.15	\$3.80	\$3.31

### 3339P Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770195	3339P-1-101	100	\$4.29	\$3.80	\$3.31
770259	3339P-1-501	500	5.15	3.80	3.31
770208	3339P-1-102	1k	4.45	3.88	3.31
770224	3339P-1-202	2k	4.45	3.99	3.31
770267	3339P-1-502	5k	3.85	3.59	3.31
854612	3339P-1-103	10k	4.45	3.80	3.31
770232	3339P-1-203	20k	3.79	3.55	3.31
770275	3339P-1-503	50k	4.45	3.88	3.31
770216	3339P-1-104	100k	4.96	4.23	3.31
770241	3339P-1-204	200k	4.29	3.80	3.31

### 3339W Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
770283	3339W-1-103	10k	\$6.79	\$6.05	\$4.76
770291	3339W-1-103LF	10k	6.79	6.05	4.76
770304	3339W-1-503LF	50k	6.79	6.05	4.76



## 1/2-Watt, 1/4" Square, Trimming Potentiometer (±10%)

- Resistance tolerance: ±10%
- Absolute min. res.: 1% or 2Ω
- Adjustment angle: 240° nominal
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 70°C
- Temperature range: -55°C to 125°C

NEW



3362P

3362U

3362W

### 3362H Series — Side Adjustment, Y-Layout

Part No.	Product No.	Ohms	1	5	100
770363	3362H-1-102LF	1k	\$.78	\$.67	\$.60
770371	3362H-1-103	10k	.78	.65	.59
770380	3362H-1-203	20k	.78	.67	.60

### 3362M Series — Top Adjust, In-Line

Part No.	Product No.	Ohms	1	5	100
770398	3362M-1-103LF	10k	\$.78	\$.67	\$.60
770401	3362M-1-504	500k	.80	.67	.60

### 3362P Series — Side Adjust, Y-Layout

Part No.	Product No.	Ohms	1	5	100
770419	3362P-1-101LF	100	\$.80	\$.67	\$.60
854663	3362P-1-102	1k	.80	.67	.60
854698	3362P-1-202	2k	.78	.65	.59
770435	3362P-1-203	20k	.78	.65	.59
854727	3362P-1-503	50k	.80	.67	.60
770427	3362P-1-104	100k	.78	.65	.59
770443	3362P-1-504	500k	.80	.71	.70

### 3362R Series — Side Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	5	100
770460	3362R-1-501	500	\$.78	\$.68	\$.64
770451	3362R-1-103	10k	.80	.68	.64

## 1/2-Watt, 3/8" Round Open-Frame Trimming Potentiometer (±20%)

- Resistance tolerance: ±20%
- Absolute min. resistance: 2Ω max.
- Adjustment angle: 205° nominal
- Power rating: 0.25W @ 85°C
- Temperature range: -55°C to 125°C
- Thumb & screwdriver adjust.



NEW

### 3352E Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770312	3352E-1-103	10k	\$.99	\$.84	\$.78

### 3352P Series — Top Adjustment

Part No.	Product No.	Ohms	1	5	100
770339	3352P-1-502	5k	\$.99	\$.81	\$.78
770321	3352P-1-103	10k	.99	.84	.78

### 3352W Series — Side Adjustment

Part No.	Product No.	Ohms	1	5	100
770347	3352W-1-103	10k	\$.99	\$.81	\$.78
770355	3352W-1-103LF	10k	.99	.84	.78

[www.Jameco.com](http://www.Jameco.com)

For additional Bourns Potentiometers, visit our website today!



JAMECO ValuePro

## 1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers

### Bourns 3386 Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M $\Omega$  min.
- Absolute minimum resistance: 2 $\Omega$
- Contact resistance variation: 2% or 3 $\Omega$  max. (whichever is greater)

A Jameco EXCLUSIVE



3386P Series  
Top Adjustment



3386W Series  
Side Adjustment



3386X Series  
Side Adjustment

To order, replace "xxx" in the Part No. with the value to the right (e.g. - order 3386P-503 for a 50k $\Omega$ ValuePro Series 3386P).	50 $\Omega$ — 500 100 $\Omega$ — 101 200 $\Omega$ — 201 500 $\Omega$ — 501 1k $\Omega$ — 102 2k $\Omega$ — 202 5k $\Omega$ — 502 10k $\Omega$ — 103 20k $\Omega$ — 203	25k $\Omega$ — 253 50k $\Omega$ — 503 100k $\Omega$ — 104 200k $\Omega$ — 204 250 $\Omega$ — 254 500k $\Omega$ — 504 1M $\Omega$ — 105 2M $\Omega$ — 205
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Series	3386P $\oplus$	3386W $\oplus$	3386X $\oplus$
Part Number	3386P-xxx	3386W-xxx	3386X-xxx
1 pc.	\$0.85	\$0.89	\$0.85
10 pcs.	\$0.76	\$0.79	\$0.76
100 pcs.	\$0.67	\$0.69	\$0.67
500 pcs.	\$0.64	\$0.65	\$0.64

## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers

JAMECO ValuePro

### Bourns 3362 Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M $\Omega$
- Absolute minimum resistance: 1% or 2 $\Omega$  (whichever is greater)
- Contact resistance variation: 1% or 3 $\Omega$  max. (whichever is greater)
- Power rating: 0.5W @ 70°C (300V max.)



3362P Series  
Top Adjustment



3362W Series  
Side Adjustment

A Jameco EXCLUSIVE

To order, replace "xxx" in the Part No. with the value to the right (e.g. - order 3362P-503 for a 50k $\Omega$ ValuePro Series 3362P).	100 $\Omega$ — 101 200 $\Omega$ — 201 500 $\Omega$ — 501 1k $\Omega$ — 102 2k $\Omega$ — 202 5k $\Omega$ — 502 10k $\Omega$ — 103	20k $\Omega$ — 203 25k $\Omega$ — 253 50k $\Omega$ — 503 100k $\Omega$ — 104 200k $\Omega$ — 204 500k $\Omega$ — 504 1M $\Omega$ — 105
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Series	3362P $\oplus$	3362W $\oplus$
Part Number	3362P-xxx	3362W-xxx
1 pc.	\$0.65	\$0.59
10 pcs.	\$0.58	\$0.54
100 pcs.	\$0.468	\$0.45
500 pcs.	\$0.436	\$0.41

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product  $\oplus$  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

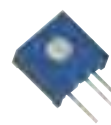
BOURNS

## 1/2-Watt, 3/8" Square, Trimming Potentiometer ( $\pm 10\%$ )

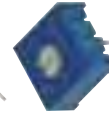
For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance (500VDC): 1,000M $\Omega$  min.
- Absolute min. resistance: 2 $\Omega$  max.
- Adjustment angle: 280° nominal
- Power rating: 0.5W @ 85°C (300V max.)
- Temperature range: -55°C to 125°C

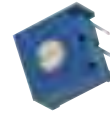
NEW



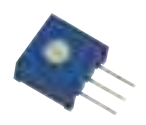
3386H



3386P



3386R



3386W

### 3386B — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
770638	3386B-1-201♣	200 ...	\$1.08	\$ .99	\$ .90
854794	3386B-1-501♣	500 .....	1.08	.99	.90
770620	3386B-1-102♣	1k .....	1.08	.99	.90
770646	3386B-1-502♣	5k .....	1.08	.99	.90
854786	3386B-1-103♣	10k .....	1.08	.99	.90

### 3386F — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	5	100
770700	3386F-1-500♣	50 .....	\$1.07	\$ .93	\$ .81
770654	3386F-1-101♣	100 .....	1.06	.94	.81
854954	3386F-1-201♣	200 .....	1.06	.93	.81
855041	3386F-1-501♣	500 .....	1.06	.93	.81
854823	3386F-1-102♣	1k .....	1.06	.93	.81
854989	3386F-1-202♣	2k .....	1.06	.93	.81
855076	3386F-1-502♣	5k .....	1.06	.93	.81
770718	3386F-1-502LF♣	5k .....	1.08	.96	.81
854858	3386F-1-103	10k .....	1.08	.96	.81
770662	3386F-1-103LF♣	10k .....	1.07	.96	.81
770671	3386F-1-103T♣*	10k .....	1.94	1.36	1.30
855017	3386F-1-203♣	20k .....	1.06	.93	.81
855105	3386F-1-503♣	50k .....	1.06	.93	.81
854920	3386F-1-104♣	100k ...	1.06	.93	.81
770697	3386F-1-204♣	200k ...	1.06	.93	.81
770726	3386F-1-504♣	500k ...	1.08	.96	.81
770689	3386F-1-105♣	1M .....	1.06	.94	.81

\* Knob option

### 3386H — Side Adjust, Rev. Y-Layout Pins

Part No.	Product No.	Ohms	1	5	100
770751	3386H-1-201♣	200 ...	\$1.25	\$ .97	\$ .81
770785	3386H-1-501♣	500 .....	1.25	.97	.81
855130	3386H-1-102♣	1k .....	1.03	.94	.81
770769	3386H-1-202♣	2k .....	1.22	.97	.81
770793	3386H-1-502♣	5k .....	1.06	.94	.81
770734	3386H-1-103♣	10k .....	1.06	.94	.81
770777	3386H-1-203♣	20k .....	1.07	.93	.81
770742	3386H-1-104♣	100k ...	1.25	.97	.81

### 3386P — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	5	100
855164	3386P-1-101♣	100 ...	\$1.06	\$ .94	\$ .81
855316	3386P-1-201♣	200 .....	1.06	.94	.81
855480	3386P-1-501♣	500 .....	1.08	.96	.81
770865	3386P-1-501T♣*	500 .....	1.59	1.44	1.30
855199	3386P-1-102	1k .....	1.06	.94	.81
855341	3386P-1-202	2k .....	1.06	.94	.81
855519	3386P-1-502	5k .....	1.06	.94	.81
855228	3386P-1-103♣	10k .....	1.06	.94	.81
770806	3386P-1-103LF♣	10k .....	1.08	.96	.81
770814	3386P-1-103T♣*	10k .....	1.79	1.47	1.30
855404	3386P-1-203♣	20k .....	1.25	.97	.81
770831	3386P-1-203LF♣	20k .....	1.08	.84	.81
770881	3386P-EY5-203♣†	20k ...	1.79	1.36	1.30
855455	3386P-1-253	25k .....	1.15	1.01	.95

\* Knob option † Extended shift

For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

### 3386P — Top Adjust, Y-Layout (Cont.)

Part No.	Product No.	Ohms	1	5	100
855543	3386P-1-503♣	50k ...	\$1.06	\$ .94	\$ .81
770873	3386P-1-503T♣*	50k .....	1.79	1.36	1.30
855244	3386P-1-104	100k ...	1.06	.94	.81
770822	3386P-1-104T♣*	100k ...	1.99	1.54	1.30
855421	3386P-1-204♣	200k ...	1.06	.94	.81
770857	3386P-1-254♣	250k ...	1.07	.93	.81
855578	3386P-1-504	500k ...	1.07	.93	.81
855287	3386P-1-105♣	1M .....	1.07	.93	.81
770849	3386P-1-205♣	2M .....	1.25	.97	.81

\* Knob option

### 3386R — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
770890	3386R-1-103♣	10k ...	\$1.17	\$1.04	\$ .90
770902	3386R-1-104♣	100k ...	1.35	1.10	.90

### 3386S — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
770911	3386S-1-103♣	10k ...	\$1.17	\$1.04	\$ .90
770929	3386S-1-503♣	50k .....	1.08	.99	.90

### 3386T — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
770937	3386T-1-102♣	1k .....	\$1.11	\$1.00	\$ .90
770945	3386T-1-503♣	50k .....	1.11	1.00	.90

### 3386W — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	5	100
770988	3386W-1-501♣	500 ...	\$1.06	\$ .94	\$ .81
855607	3386W-1-102♣	1k .....	1.06	.94	.81
770961	3386W-1-202♣	2k .....	1.06	.94	.81
770996	3386W-1-502♣	5k .....	1.06	.93	.81
855631	3386W-1-103♣	10k .....	1.25	.99	.81
855658	3386W-1-203♣	20k .....	1.06	.94	.81
771008	3386W-1-503♣	50k .....	1.06	.94	.81
770953	3386W-1-104♣	100k ...	1.06	.94	.81
770970	3386W-1-254♣	250k ...	1.22	.97	.81
771016	3386W-1-504♣	500k ...	1.06	.94	.81

### 3386X — Side Adjust, Rev. Y-Layout Pins

Part No.	Product No.	Ohms	1	5	100
771067	3386X-1-500♣	50 .....	\$1.07	\$ .93	\$ .81
771024	3386X-1-101♣	100 .....	1.06	.94	.81
771075	3386X-1-501♣	500 .....	1.06	.94	.81
855682	3386X-1-102♣	1k .....	1.06	.94	.81
771041	3386X-1-202♣	2k .....	1.06	.94	.81
855797	3386X-1-502♣	5k .....	1.25	.97	.81
855711	3386X-1-103♣	10k .....	1.07	.84	.81
855771	3386X-1-203♣	20k .....	1.06	.94	.81
771083	3386X-1-503♣	50k .....	1.06	.94	.81
855746	3386X-1-104♣	100k ...	1.06	.94	.81
771059	3386X-1-204♣	200k ...	1.07	.93	.81
771032	3386X-1-105♣	1M .....	1.06	.94	.81

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### 3329P Series

- TO-5 grid
- Top adjustment
- Terminals: solderable pins
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C



95484

#### Cross Ref. Chart

Equivalent to:	
Beckman	82M
Bourns	3329P
Mepcopal	8050
MEC	471
Murata	3321P
Spectrol	62-3
VRN	171
Weston	567

Qty.	1	10	100	500
Price	\$1.89	\$1.59	\$1.29	\$1.19

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
95441	3329P-102	1k	96719	3329P-103	10k
95450	3329P-502	5k	95484	3329P-104	100k

## 1/2-Watt Trimming Potentiometers (±10%)

### 3362P Series — Linear Taper

- Insulation resistance: 500VDC 1,000MΩ minimum
- Absolute minimum resistance: 1% or 2Ω maximum
- Wiper positioning: 50% nominal
- Contact resistance variation: 1% or 3Ω maximum
- Rotational life: 200 cycles
- Top adjustment: 240° nominal

191645



#### Cross Ref. Chart

Equivalent to:	
Bourns	3362P
Copal	CT-6P
Murata	PVC6
Vishay	76

Qty.	1	10	100	500
Price	\$ .69	\$ .62	\$ .496	\$ .372

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191645	3362P-200	20	182836	3362P-103	10k
182810	3362P-501	500	182852	3362P-105	1M
182828	3362P-502	5k			

### JAMECO ValuePro

## High-Current Toroid Inductors

- DC - DC converter, EMI filter applications
- Low radiation
- Low core loss
- High current capacity
- Operating temp.: -55°C to +105°C
- V = vertical mount; H = horizontal mount
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications



Horizontal

Vertical

### J. W. Miller 2100 Series Value Equivalents

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371741	2101-V	10.0	10.8	0.006	0.34	0.053	\$1.69	\$ .95	\$.71
371506	2101-H	10.0	10.8	0.006	0.77	0.053	1.69	1.03	.74
371750	2102-V	12.0	10.3	0.007	0.34	0.053	1.69	.95	.71
371514	2102-H	12.0	10.3	0.007	0.77	0.053	1.65	.95	.71
371769	2103-V	15.0	7.7	0.012	0.33	0.042	1.69	1.04	.74
371522	2103-H	15.0	7.7	0.012	0.76	0.042	1.65	.95	.71
371776	2104-V	18.0	7.4	0.013	0.33	0.042	1.69	.95	.71
371531	2104-H	18.0	7.4	0.013	0.76	0.042	1.65	.84	.63
371784	2105-V	22.0	7.0	0.015	0.33	0.042	1.69	.95	.71
371549	2105-H	22.0	7.0	0.015	0.76	0.042	1.65	.95	.71
371792	2106-V	27.0	5.3	0.026	0.32	0.034	1.65	.95	.71
371557	2106-H	27.0	5.3	0.026	0.75	0.034	1.65	.95	.71
371805	2107-V	33.0	5.0	0.029	0.32	0.034	1.69	.95	.71
371565	2107-H	33.0	5.0	0.029	0.75	0.034	1.69	1.04	.74
371813	2108-V	39.0	4.8	0.032	0.32	0.034	1.65	.95	.71
371573	2108-H	39.0	4.8	0.032	0.75	0.034	1.65	.95	.71
371822	2109-V	47.0	3.6	0.055	0.31	0.027	1.69	1.04	.74
371581	2109-H	47.0	3.6	0.055	0.75	0.027	1.69	1.04	.74
371830	2110-V	56.0	3.4	0.060	0.31	0.027	1.65	.95	.71
371590	2110-H	56.0	3.4	0.060	0.75	0.027	1.65	.95	.71
371848	2111-V	68.0	3.3	0.067	0.31	0.027	1.65	.95	.71
371602	2111-H	68.0	3.3	0.067	0.75	0.027	1.65	.95	.71
371856	2112-V	100.0	2.4	0.13	0.31	0.022	1.69	.95	.71
371611	2112-H	100.0	2.4	0.13	0.74	0.022	1.69	1.04	.74
371864	2113-V	120.0	2.2	0.15	0.31	0.022	1.65	.95	.71
371629	2113-H	120.0	2.2	0.15	0.74	0.022	1.69	1.44	1.08
371872	2114-V	150.0	3.4	0.062	0.35	0.034	1.65	.95	.71
371637	2114-H	150.0	3.4	0.062	0.79	0.034	1.65	.95	.71
371881	2115-V	180.0	2.6	0.11	0.34	0.027	1.65	.95	.71
371645	2115-H	180.0	2.6	0.11	0.77	0.027	1.65	.95	.71
371899	2116-V	220.0	2.4	0.12	0.34	0.027	1.65	.95	.71

## High-Current Toroid Inductors Quantity SAVE

### J. W. Miller 2100 Series Value Equivalents (Continued)

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371653	2116-H	220.0	2.4	0.12	0.77	0.027	\$1.65	\$ .95	\$.71
371901	2117-V	270.0	1.8	0.21	0.33	0.022	1.65	.95	.71
371661	2117-H	270.0	1.8	0.21	0.76	0.022	1.65	.95	.71
371910	2118-V	330.0	1.7	0.23	0.33	0.022	1.65	.95	.71
371670	2118-H	330.0	1.7	0.23	0.76	0.022	1.65	.84	.63
371928	2119-V	390.0	1.7	0.25	0.33	0.022	1.65	.95	.71
371688	2119-H	390.0	1.7	0.25	0.76	0.022	1.65	.95	.71
371936	2120-V	470.0	1.6	0.28	0.35	0.022	1.65	.95	.71
371696	2120-H	470.0	1.6	0.28	0.76	0.022	1.65	.95	.71
371944	2121-V	560.0	1.5	0.30	0.35	0.022	1.65	.95	.71
371709	2121-H	560.0	1.5	0.30	0.79	0.022	1.65	.95	.71
371952	2122-V	680.0	1.4	0.33	0.35	0.022	1.89	1.17	.84
371717	2122-H	680.0	1.4	0.33	0.79	0.022	1.65	.95	.71
371961	2123-V	820.0	1.4	0.37	0.35	0.022	1.65	.95	.71
371725	2123-H	820.0	1.4	0.37	0.79	0.022	1.65	.95	.71
371979	2124-V	1000.0	1.3	0.40	0.37	0.022	1.89	1.05	.79
371733	2124-H	1000.0	1.3	0.40	0.81	0.022	1.65	.95	.71

### J. W. Miller 2200 Series Value Equivalents

371266	2201-V	10.0	12.5	0.007	0.46	0.053	\$2.58	\$1.58	\$1.12
371021	2201-H	10.0	12.5	0.007	0.88	0.053	2.19	1.26	.95
371274	2202-V	12.0	12.0	0.008	0.46	0.053	2.15	1.26	.95
371039	2202-H	12.0	12.0	0.008	0.88	0.053	2.19	1.26	.95
371282	2203-V	15.0	11.3	0.008	0.46	0.053	2.15	1.26	.95
371047	2203-H	15.0	11.3	0.008	0.88	0.053	2.19	1.26	.95
371291	2204-V	18.0	10.8	0.009	0.46	0.053	2.15	1.26	.95
371055	2204-H	18.0	10.8	0.009	0.88	0.053	2.19	1.26	.95
371303	2205-V	22.0	10.3	0.010	0.46	0.053	2.15	1.28	.96
371063	2205-H	22.0	10.3	0.010	0.88	0.053	2.19	1.26	.95
371311	2206-V	27.0	9.8	0.011	0.46	0.053	2.15	1.26	.95
371071	2206-H	27.0	9.8	0.011	0.88	0.053	2.19	1.31	.98
371320	2207-V	33.0	7.4	0.020	0.45	0.042	2.15	1.26	.95
371080	2207-H	33.0	7.4	0.020	0.87	0.042	2.19	1.12	.84
371338	2208-V	39.0	7.1	0.022	0.45	0.042	2.15	1.26	.95
371098	2208-H	39.0	7.1	0.022	0.87	0.042	2.19	1.26	.95
371346	2209-V	47.0	6.7	0.024	0.45	0.042	2.15	1.26	.95
371101	2209-H	47.0	6.7	0.024	0.87	0.042	2.19	1.12	.84
371354	2210-V	56.0	6.4	0.026	0.45	0.042	2.15	1.12	.84
371119	2210-H	56.0	6.4	0.026	0.87	0.042	2.19	1.26	.95
371362	2211-V	68.0	4.9	0.046	0.44	0.034	2.15	1.26	.95
371127	2211-H	68.0	4.9	0.046	0.86	0.034	2.19	1.26	.95
371371	2212-V	100.0	4.4	0.056	0.44	0.034	2.58	1.58	1.12
371135	2212-H	100.0	4.4	0.056	0.86	0.034	2.15	1.31	.93
371389	2213-V	120.0	3.3	0.098	0.44	0.027	2.15	1.26	.95
371143	2213-H	120.0	3.3	0.098	0.86	0.027	2.19	1.26	.95
371397	2214-V	150.0	3.1	0.11	0.44	0.027	2.15	1.26	.95
371151	2214-H	150.0	3.1	0.11	0.86	0.027	2.19	1.26	.95
371400	2215-V	180.0	3.8	0.075	0.48	0.034	2.15	1.26	.95
371160	2215-H	180.0	3.8	0.075	0.90	0.034	2.19	1.12	.84
371418	2216-V	220.0	3.6	0.083	0.48	0.034	2.15	1.26	.95
371178	2216-H	220.0	3.6	0.083	0.90	0.034	2.19	1.26	.95
371426	2217-V	270.0	3.4	0.092	0.48	0.034	2.35	1.37	1.03
371186	2217-H	270.0	3.4	0.092	0.90	0.034	2.35	1.45	1.09
371434	2218-V	330.0	3.3	0.10	0.48	0.034	2.35	1.37	1.23
371194	2218-H	330.0	3.3	0.10	0.90	0.034	2.39	1.37	1.03
371442	2219-V	390.0	2.5	0.18	0.46	0.027	2.35	1.37	1.03
371207	2219-H	390.0	2.5	0.18	0.88	0.027	2.39	1.22	.92
371451	2220-V	470.0	2.3	0.19	0.46	0.027	2.35	1.37	1.03
371215	2220-H	470.0	2.3	0.19	0.88	0.027	2.35	1.37	1.03
371469	2221-V	560.0	2.2	0.21	0.46	0.027	2.35	1.37	1.03
371223	2221-H	560.0	2.2	0.21	0.88	0.027	2.35	1.45	1.09
371477	2222-V	680.0	2.1	0.23	0.49	0.027	2.35	1.32	.99
371231	2222-H	680.0	2.1	0.23	0.91	0.027	2.35	1.37	1.03
371485	2223-V	820.0	2.0	0.26	0.49	0.027	2.35	1.37	1.03
371240	2223-H	820.0	2.0	0.26	0.91	0.027	2.35	1.45	1.09
371493	2224-V	1000.0	1.9	0.28	0.49	0.027	2.35	1.37	1.03
371258	2224-H	1000.0	1.9	0.28	0.91	0.027	2.35	1.37	1.03

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## High Current Toroid Inductors Quantity SAVE

### J.W. Miller 2300 Series Value Equivalents (Continued)

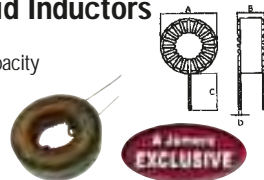
Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
386901	2301-V	10.0	20.0	0.005	0.56	0.066	\$2.19	\$1.47	\$1.10
386361	2301-H	10.0	20.0	0.005	1.18	0.066	2.19	1.47	1.10
386935	2302-V	12.0	19.1	0.005	0.56	0.066	2.19	1.47	1.10
386396	2302-H	12.0	19.1	0.005	1.18	0.066	2.19	1.47	1.10
386951	2303-V	15.0	18.0	0.006	0.56	0.066	2.19	1.47	1.10
386425	2303-H	15.0	18.0	0.006	1.18	0.066	2.19	1.47	1.10
386978	2304-V	18.0	17.2	0.006	0.56	0.066	2.19	1.49	1.13
386441	2304-H	18.0	17.2	0.006	1.18	0.066	2.19	1.47	1.10
387006	2305-V	22.0	16.4	0.007	0.56	0.066	2.19	1.47	1.10
386468	2305-H	22.0	16.4	0.007	1.18	0.066	2.19	1.47	1.10
387022	2306-V	27.0	15.6	0.008	0.56	0.066	2.19	1.47	1.10
386484	2306-H	27.0	15.6	0.008	1.18	0.066	2.19	1.47	1.10
387049	2307-V	33.0	11.7	0.013	0.53	0.053	2.19	1.47	1.10
386505	2307-H	33.0	11.7	0.013	1.14	0.053	2.19	1.47	1.10
387065	2308-V	39.0	11.2	0.014	0.53	0.053	2.19	1.47	1.10
386521	2308-H	39.0	11.2	0.014	1.14	0.053	2.19	1.47	1.10
387090	2309-V	47.0	10.7	0.016	0.53	0.053	2.19	1.47	1.10
386548	2309-H	47.0	10.7	0.016	1.14	0.053	2.19	1.47	1.10
387111	2310-V	56.0	10.2	0.017	0.53	0.053	2.19	1.47	1.10
386564	2310-H	56.0	10.2	0.017	1.14	0.053	2.19	1.47	1.10
387137	2311-V	68.0	7.7	0.030	0.52	0.042	2.19	1.47	1.10
386581	2311-H	68.0	7.7	0.030	1.13	0.042	2.19	1.30	.98
387161	2312-V	100.0	7.0	0.037	0.52	0.042	2.19	1.47	1.10
386601	2312-H	100.0	7.0	0.037	1.13	0.042	2.19	1.30	.98
387188	2313-V	120.0	6.7	0.040	0.52	0.042	2.25	1.73	1.42
386636	2313-H	120.0	6.7	0.040	1.13	0.042	2.19	1.47	1.10
387209	2314-V	150.0	5.0	0.071	0.51	0.034	2.19	1.47	1.10
386652	2314-H	150.0	5.0	0.071	1.12	0.034	2.19	1.47	1.10
387233	2315-V	180.0	4.8	0.078	0.51	0.034	2.19	1.47	1.10
386679	2315-H	180.0	4.8	0.078	1.12	0.034	2.19	1.47	1.10
387268	2316-V	220.0	5.8	0.054	0.56	0.042	2.19	1.49	1.13
386695	2316-H	220.0	5.8	0.054	1.17	0.042	2.19	1.47	1.10
387284	2317-V	270.0	5.5	0.060	0.56	0.042	2.19	1.47	1.10
386724	2317-H	270.0	5.5	0.060	1.17	0.042	2.19	1.47	1.10
387313	2318-V	330.0	5.2	0.067	0.56	0.042	2.19	1.49	1.13
386741	2318-H	330.0	5.2	0.067	1.17	0.042	2.19	1.47	1.10
387330	2319-V	390.0	5.0	0.072	0.56	0.042	2.19	1.47	1.10
386767	2319-H	390.0	5.0	0.072	1.17	0.042	2.25	1.73	1.37
387364	2320-V	470.0	3.8	0.13	0.54	0.034	2.19	1.49	1.13
386783	2320-H	470.0	3.8	0.13	1.16	0.034	2.19	1.47	1.10
387381	2321-V	560.0	3.6	0.14	0.54	0.034	2.19	1.47	1.10
386812	2321-H	560.0	3.6	0.14	1.16	0.034	2.19	1.47	1.10
387410	2322-V	680.0	3.4	0.15	0.54	0.034	2.19	1.47	1.10
386839	2322-H	680.0	3.4	0.15	1.16	0.034	2.19	1.47	1.10
387436	2323-V	820.0	2.6	0.27	0.53	0.027	2.19	1.47	1.10
386855	2323-H	820.0	2.6	0.27	1.14	0.027	2.19	1.47	1.10
388041	2324-V	1000.0	2.4	0.30	0.53	0.027	2.19	1.47	1.10
386880	2324-H	1000.0	2.4	0.30	1.14	0.027	2.19	1.47	1.10

JAMECO ValuePro

## High Current Toroid Inductors

### J.W. Miller 5700 Series Value Equivalents

- Low radiation • Low core loss • High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.  
C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 241 for EMI suppression cores
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications



Part No.	Cross Ref. No.	L (µH)	IDC max. (A)	L min. @ IDC	Pricing				
					1	10	25	50	100
208258	5701	10	11.0	5	\$4.49	\$4.27	\$4.15	\$3.69	\$3.53
208303	5707	75	5.0	40	4.35	3.75	3.37	2.78	2.09
208274	5703	125	2.75	70	1.49	1.33	1.20	1.08	.97
208320	5712	150	4.75	85	4.35	3.75	3.19	2.55	1.91
208283	5704	275	2.0	150	3.99	3.05	2.74	2.26	1.70
208291	5705	450	1.5	250	4.35	3.28	2.95	2.44	2.21

TRIAD

## High Current Rod Core Inductors

- Rated current @ 40°C temperature rise

Fig. 1



Fig. 2



Fig. 1

Part No.	Product No.	Inductance (mH) ±15%	DC Rated Current (A)	DCR (Ω) max.	Lead Diameter	Pricing		
						1	10	100
629466	Firch-2	3.05	9.7	7.3	0.045"	\$2.39	\$1.73	\$1.63

Fig. 2

Part No.	Product No.	Inductance 10%	DC Rated Current (A)	DCR (Ω) max.	Pricing		
					1	10	100
630256	RC-10	100µH	2.0	0.098	\$2.35	\$2.14	\$1.85
630264	RC-11	75µH	2.5	0.070	2.35	2.15	1.92

- This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

JAMECO ValuePro

## Chip Inductors (SMD)

- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place



### PM0805 Series Equivalents

PM0805/PM1008

PM1210/PM1812

Part No.	Cross Ref. No.	L (nH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663592	0805-2N2M	2.2	15	6000	0.08	600	\$0.25	\$0.225	\$0.195
663605	0805-3N3M	3.3	35	6000	0.08	600	.25	.225	.195
663613	0805-6N8M	6.8	50	5500	0.11	600	.25	.225	.195
663621	0805-8N2M	8.2	35	4700	0.12	600	.25	.225	.195
663630	0805-12NM	12.0	50	4000	0.15	600	.25	.225	.195
663648	0805-18NM	18.0	50	3300	0.2	600	.25	.225	.195
663656	0805-27NM	27.0	55	2500	0.25	500	.25	.225	.195
663664	0805-33NM	33.0	60	2050	0.27	500	.25	.225	.195
663672	0805-39NM	39.0	60	2000	0.29	500	.25	.225	.195
663681	0805-47NM	47.0	60	1650	0.31	500	.25	.225	.195
663699	0805-56NK	56.0	60	1550	0.34	500	.25	.225	.195
663701	0805-68NK	68.0	60	1450	0.38	500	.25	.225	.195
663710	0805-82NK	82.0	60	1300	0.42	400	.25	.225	.195

### PM1008 Series Equivalents

Part No.	Cross Ref. No.	L (nH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663736	1008-10NM	10	50	4100	0.08	1000	\$0.25	\$0.166	\$0.152
663744	1008-12NM	12	50	3300	0.09	1000	.25	.166	.152
663752	1008-15NM	15	50	2500	0.10	1000	.25	.166	.152
663761	1008-18NM	18	50	2500	0.11	1000	.25	.166	.152
663779	1008-22NM	22	55	2400	0.12	1000	.25	.166	.152
663787	1008-27NM	27	55	1600	0.13	1000	.25	.166	.152
663795	1008-33NM	33	60	1600	0.14	1000	.25	.166	.152
663808	1008-39NM	39	60	1500	0.15	1000	.25	.166	.152
663816	1008-47NM	47	65	1500	0.16	1000	.25	.166	.152
663824	1008-56NK	56	65	1300	0.18	1000	.25	.166	.152
663832	1008-68NK	68	65	1300	0.20	1000	.25	.166	.152
663841	1008-82NK	82	60	1000	0.22	1000	.25	.166	.152
663859	1008-R10K	100	60	1000	0.56	650	.25	.166	.152
663867	1008-R12K	120	60	950	0.63	650	.25	.166	.152
663875	1008-R15K	150	45	850	0.70	580	.25	.166	.152
663883	1008-R18K	180	45	750	0.77	620	.25	.166	.152
663891	1008-R22K	220	45	660	0.84	500	.25	.166	.152
663904	1008-R27K	270	45	600	0.91	500	.25	.166	.152
663912	1008-R33K	330	45	570	1.05	450	.25	.166	.152
663921	1008-R39K	390	45	500	1.12	470	.25	.166	.152
663939	1008-2R7K	2700	22	80	3.20	290	.25	.166	.152
663947	1008-3R3K	3300	22	60	3.40	290	.25	.166	.152
663955	1008-3R9K	3900	20	60	3.60	260	.25	.166	.152
663963	1008-4R7K	4700	18	60	4.00	260	.25	.166	.152

For AVX Inductors, visit our website at [www.Jameco.com](http://www.Jameco.com).

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## Chip Inductors (SMD) (Continued)

### PM1210 Series Equivalents

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663971	1210-1R0J	1.0	30	120	0.70	400	\$.28	\$.261	\$.166
663980	1210-1R2J	1.2	30	100	0.75	390	.28	.261	.166
663998	1210-1R5J	1.5	30	85	0.85	370	.28	.261	.166
664000	1210-1R8J	1.8	30	80	0.90	350	.28	.261	.166
664018	1210-2R2J	2.2	30	75	1.00	320	.28	.261	.166
664026	1210-2R7J	2.7	30	70	1.10	290	.28	.261	.166
664034	1210-3R3J	3.3	30	60	1.20	260	.28	.261	.166
664042	1210-3R9J	3.9	30	55	1.30	250	.28	.261	.166
664051	1210-4R7J	4.7	30	50	1.50	220	.28	.261	.166
664069	1210-5R6J	5.6	30	45	1.60	200	.28	.261	.166
664077	1210-6R8J	6.8	30	40	1.80	180	.28	.261	.166
664085	1210-8R2J	8.2	30	35	2.00	170	.28	.261	.166
664093	1210-100J	10.0	30	30	2.10	150	.28	.261	.166
664106	1210-120J	12.0	30	20	2.50	140	.28	.261	.166
664114	1210-150J	15.0	30	20	2.80	130	.28	.261	.166
664122	1210-180J	18.0	30	20	3.30	120	.28	.261	.166
664131	1210-220J	22.0	30	20	3.70	110	.28	.261	.166
664149	1210-270J	27.0	30	20	5.00	80	.28	.261	.166
664157	1210-330J	33.0	30	17	5.60	70	.28	.261	.166
664165	1210-390J	39.0	30	16	6.40	65	.28	.261	.166
664173	1210-470J	47.0	30	15	7.00	60	.28	.261	.166
664181	1210-560J	56.0	30	13	8.00	55	.28	.261	.166
664190	1210-680J	68.0	30	12	9.00	50	.28	.261	.166
664202	1210-820J	82.0	30	11	10.00	45	.28	.261	.166
664211	1210-101J	100	20	10	10.00	40	.28	.261	.166
664229	1210-121J	120	20	10	11.00	70	.28	.261	.166
664237	1210-151J	150	20	8	15.00	65	.28	.261	.166
664245	1210-181J	180	20	7	17.00	60	.28	.261	.166
664253	1210-221J	220	20	7	21.00	50	.28	.261	.166

### PM1812 Series Equivalents

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
643014	1812-R10K	0.10	35	300	0.18	800	\$.25	\$.225	\$.176
643022	1812-R12K	0.12	35	280	0.20	770	.25	.225	.176
643031	1812-R15K	0.15	35	250	0.22	730	.25	.225	.176
643049	1812-R18K	0.18	35	220	0.24	700	.25	.225	.176
643057	1812-R22K	0.22	40	200	0.25	665	.25	.225	.176
643065	1812-R27K	0.27	40	180	0.26	635	.25	.225	.176
643073	1812-R33K	0.33	40	165	0.28	605	.25	.225	.176
643081	1812-R39K	0.39	40	150	0.30	575	.25	.225	.176
643090	1812-R47K	0.47	40	145	0.32	545	.25	.225	.176
643102	1812-R56K	0.56	40	140	0.36	520	.25	.225	.176
643111	1812-R68K	0.68	40	135	0.40	500	.25	.225	.176
643129	1812-R82K	0.82	40	130	0.45	475	.25	.225	.176
643137	1812-1R0J	1.0	50	100	0.50	450	.25	.225	.176
643145	1812-1R2J	1.2	50	80	0.55	430	.25	.225	.176
643153	1812-1R5J	1.5	50	70	0.60	410	.25	.225	.176
643161	1812-1R8J	1.8	50	60	0.65	390	.25	.225	.176
643170	1812-2R2J	2.2	50	55	0.70	380	.25	.225	.176
643188	1812-2R7J	2.7	50	50	0.75	370	.25	.225	.176
643196	1812-3R3J	3.3	50	45	0.80	355	.25	.225	.176
643209	1812-3R9J	3.9	50	40	0.90	330	.25	.225	.176
643217	1812-4R7J	4.7	50	35	1.00	315	.25	.225	.176
643225	1812-5R6J	5.6	50	33	1.10	300	.25	.225	.176
643233	1812-6R8J	6.8	50	27	1.20	285	.25	.225	.176
643241	1812-8R2J	8.2	50	23	1.40	270	.25	.225	.176
643250	1812-100J	10.0	50	20	1.50	250	.25	.225	.176
643268	1812-120J	12.0	50	18	2.00	225	.25	.225	.176
643276	1812-150J	15.0	50	17	2.50	200	.25	.225	.176
643284	1812-180J	18.0	50	15	2.80	190	.25	.225	.176
643292	1812-220J	22.0	50	13	3.20	180	.25	.225	.176
643305	1812-270J	27.0	50	12	3.60	170	.25	.225	.178
643313	1812-330J	33.0	50	11	4.00	160	.25	.225	.176
643321	1812-390J	39.0	50	10	4.50	150	.25	.225	.176

### PM1812 Series Equivalents (Continued)

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
643330	1812-470J	47.0	50	10	5.00	140	\$.25	\$.225	\$.176
643348	1812-560J	56.0	50	9	5.50	135	.25	.225	.176
643356	1812-680J	68.0	50	9	6.00	130	.25	.225	.176
643364	1812-820J	82.0	50	8	7.00	120	.25	.225	.176
643372	1812-101J	100	40	8	8.00	110	.25	.225	.176
643381	1812-121J	120	40	6	8.00	110	.25	.225	.176
643399	1812-151J	150	40	5	9.00	105	.25	.225	.176
643401	1812-181J	180	40	5	9.50	105	.25	.225	.176
643410	1812-221J	220	40	4	10.00	100	.25	.225	.176
643428	1812-271J	270	30	4	12.00	92	.25	.225	.176
643436	1812-331J	330	40	3.5	14.00	85	.25	.225	.176
643444	1812-391J	390	40	3	16.00	80	.25	.225	.176
643452	1812-471J	470	40	3	26.00	62	.25	.225	.176
643461	1812-561J	560	30	3	30.00	50	.25	.225	.176
643479	1812-681J	680	30	3	30.00	50	.25	.225	.176
643487	1812-821J	820	30	2.5	35.00	30	.25	.225	.176
643495	1812-102J	1000	25	2.5	40.00	30	.25	.225	.176

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## Molded RF Chokes

Quantity SAVE

- High Q and high reliability
- Dielectric strength: 1000V<sub>RMS</sub>
- Injection molded to protect coil from extreme environment
- Color bands or numerical marking for identification

### J. W. Miller 9230 Series Value Equivalents

- Overall length: 2.25"
- Lead length: 1.0"
- Body length: 0.25"
- Body diameter: 0.095"
- Operating temp.: phenolic -55°C to +125°C, iron/ferrite -55°C to +105°C
- Miniature size

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372285	9230-94	0.10	690	0.07	1100	Phenolic	\$.84	\$.71	\$.533
372293	9230-00	0.15	600	0.10	1100	Phenolic	.33	.28	.22
372306	9230-04	0.22	510	0.14	935	Phenolic	.52	.442	.332
372314	9230-10	0.39	380	0.30	640	Phenolic	.52	.442	.332
372322	9230-12	0.47	340	0.35	590	Phenolic	.52	.442	.332
372331	9230-14	0.56	300	0.50	495	Phenolic	.27	.239	.215
372349	9230-16	0.68	275	0.60	450	Phenolic	.34	.289	.217
372357	9230-20	1.0	230	1.0	350	Phenolic	.52	.442	.332
372365	9230-32	3.3	90	0.85	380	Iron	.65	.55	.413
372373	9230-34	3.9	82	1.0	350	Iron	1.09	.93	.70
372381	9230-36	4.7	75	1.2	320	Iron	.46	.391	.293
372390	9230-44	10.0	50	3.7	180	Iron	.40	.34	.255
372402	9230-52	22.0	25	3.3	190	Iron	1.03	.63	.46
372411	9230-56	33.0	24	3.4	187	Ferrite	1.09	.68	.48
372429	9230-64	68.0	15	6.7	135	Ferrite	.55	.468	.351
372437	9230-68	100	13	8.0	125	Ferrite	.61	.52	.39
372445	9230-70	120	12	13.0	97	Ferrite	1.45	1.23	.92

### J. W. Miller 9250 Series Value Equivalents

- Ferrite magnetic shielded for low radiation
- Operating temp.: -55°C to +105°C

Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (Min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372453	9250-102	1.0	140	0.07	1070	Iron	\$.68	\$.58	\$.435
372461	9250-222	2.2	100	0.19	650	Iron	.68	.58	.435
372470	9250-472	4.7	70	0.55	380	Iron	.70	.60	.45
372488	9250-103	10.0	46	1.62	220	Iron	.68	.58	.435
372496	9250-223	22.0	41	0.96	290	Ferrite	1.05	.89	.67
372509	9250-473	47.0	27	2.11	195	Ferrite	.75	.64	.48
372517	9250-104	100.0	10	3.12	160	Ferrite	1.89	1.17	.88
372525	9250-224	220.0	7.5	5.0	125	Ferrite	1.89	1.17	.88
372533	9250-474	470.0	5.7	9.5	92	Ferrite	.85	.72	.54
372541	9250-105	1000.0	3.8	17.5	70	Ferrite	1.89	1.17	.82
372550	9250-225	2200.0	0.97	33.8	50	Ferrite	.97	.83	.62
372568	9250-106	10000.0	0.47	137.0	24	Ferrite	1.05	.89	.67








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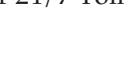
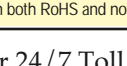
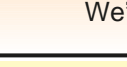
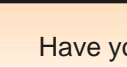
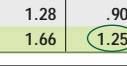
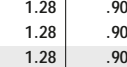
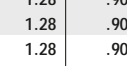
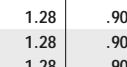
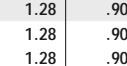
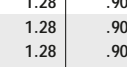
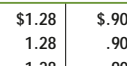
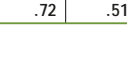
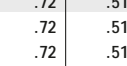
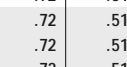
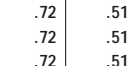
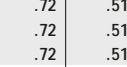
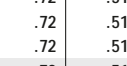
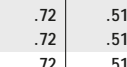
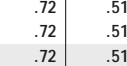
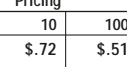
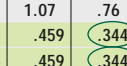
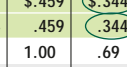
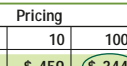
## Hash RF Chokes

Quantity SAVE

### J.W. Miller 5200 Series Value Equivalents

- Low cost
- High current capacity
- Ideal for use as EMI filter, output choke, smoothing coil
- Low DCR
- Varnish coated

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (Hz)	DCR Max. (Ω)	Current (mA)	Pricing		
						1	10	100
642396	5230 	4	7.96M	0.012	8.0	\$ .54	\$ .459	\$ .344
642409	5240 	40	1.0kHz	0.082	3.0	.54	.459	.344
681088	5250 	100	1.0kHz	0.216	2.0	1.05	1.00	.69
681070	5252 	125	1.0kHz	0.08	3.5	1.75	1.07	.76
642417	5254 	250	1.0kHz	0.17	2.5	.54	.459	.344
642425	5256 	500	1.0kHz	0.25	2.0	.54	.459	.344
642433	5258 	1000	1.0kHz	0.6	1.0	.54	.459	.344






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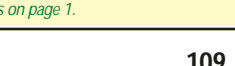
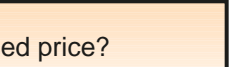
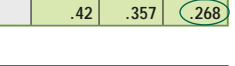
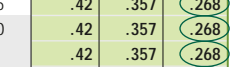
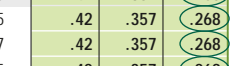
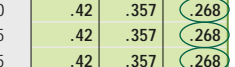
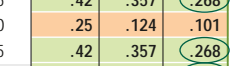
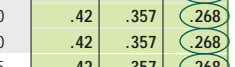
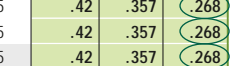
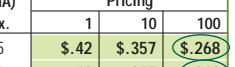
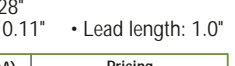
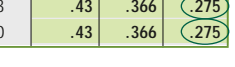
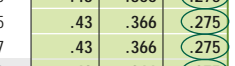
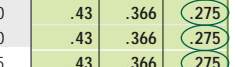
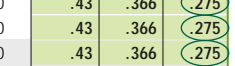
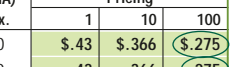
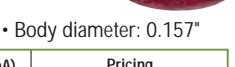
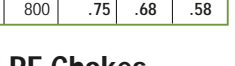
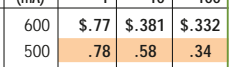
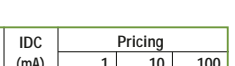
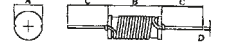
## Axial Leaded RF Chokes

J.W. Miller EXCLUSIVE

### J.W. Miller 4600 Series Value Equivalents

- Inductive tolerance: 10%
- Operating temperature: -55°C to +125°C
- Size: A = 6.8mm max.; B = 19.0mm max.  
C = 25.0 ± 2.0mm; D = 0.65 ± 0.5mm

Part No.	Cross Ref. No.	L (µH) @ 1kHz	Q min.	SRF (MHz) min.	DCR Ω max.	IDC (mA)	Pricing		
							1	10	100
208127	4611 	8.2	57	65	1.2	600	\$ .77	\$ .381	\$ .332
208135	4612 	10	36	61	1.5	500	.78	.58	.34
642345	4626 	24	65	25	0.34	800	.75	.68	.58
























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
## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Low DCR
- Test frequency: 1kHz

### J.W. Miller 5800 Series Value Equivalents

Part No.	Cross Ref. No.	L ±10% (µH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing		
					1	10	100
642548	5800-3R9 	3.9	0.019	1.28	\$1.19	\$ .72	\$ .51
642556	5800-8R2 	8.2	0.028	1.28	1.19	.72	.51
642564	5800-100 	10	0.033	1.28	1.19	.72	.51
642572	5800-470 	47	0.109	0.804	1.19	.72	.51
642581	5800-560 	56	0.14	0.804	1.19	.72	.51
642599	5800-820 	82	0.152	0.804	1.19	.72	.51
642601	5800-101 	100	0.208	0.632	1.19	.72	.51
642610	5800-121 	120	0.283	0.508	1.19	.72	.51
642628	5800-151 	150	0.34	0.508	1.19	.72	.51
642636	5800-181 	180	0.362	0.508	1.19	.72	.51
642644	5800-221 	220	0.43	0.508	1.19	.72	.51
642652	5800-271 	270	0.557	0.4	1.19	.72	.51
642661	5800-331 	330	0.665	0.4	1.19	.72	.51
642679	5800-391 	390	0.772	0.4	1.19	.72	.51
642687	5800-471 	470	1.15	0.315	1.19	.72	.51
642695	5800-102 	1000	2.30	0.200	1.19	.72	.51
642708	5800-152 	1500	3.45	0.158	1.19	.72	.51
642716	5800-222 	2200	4.48	0.158	1.19	.72	.51
642724	5800-472 	4700	10.5	0.1	1.19	.72	.51
642732	5800-602 	6800	16.3	0.082	1.19	.72	.51
642741	5800-103 	10,000	26.4	0.05	1.19	.72	.51

### J.W. Miller 5900 Series Value Equivalents

Part No.	Cross Ref. No.	L ±10% (µH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing		
					1	10	100
642759	5900-100 	10	0.017	8.7	\$2.09	\$1.28	\$ .90
642767	5900-220 	22	0.026	6.07	2.09	1.28	.90
642775	5900-470 	47	0.035	4	2.09	1.28	.90
642783	5900-560 	56	0.037	3.66	2.09	1.28	.90
642791	5900-101 	100	0.09	2.79	2.09	1.28	.90
642804	5900-121 	120	0.113	2.54	2.09	1.28	.90
642812	5900-151 	150	0.129	2.22	2.09	1.28	.90
642821	5900-221 	220	0.162	1.89	2.09	1.28	.90
642839	5900-271 	270	0.208	1.63	2.09	1.28	.90
642847	5900-331 	330	0.212	1.51	2.09	1.28	.90
642855	5900-391 	390	0.281	1.39	2.09	1.28	.90
642863	5900-471 	470	0.38	1.2	2.09	1.28	.90
642871	5900-681 	680	0.548	1	2.09	1.28	.90
642880	5900-102 	1000	0.844	0.8	2.09	1.28	.90
642898	5900-152 	1500	1.18	0.7	2.09	1.28	.90
642901	5900-472 	4700	3.19	0.4	2.09	1.28	.90
642919	5900-682 	6800	5.69	0.322	2.09	1.28	.90
642927	5900-103 	10,000	7.3	0.266	1.95	1.66	1.25












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## Epoxy Conformal Coated RF Chokes

Quantity SAVE

### J.W. Miller 77F Series Value Equivalents

- High current and self-resonant frequency
- Low DCR
- Dielectric strength: 500V<sub>RMS</sub>
- Color bands identification
- Overall length: 2.41"
- Low cost
- Operating temp.: -55°C to +105°C
- Body length: 0.41"
- Lead length: 1.0"
- Body diameter: 0.157"

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
371995	77F6R8 	6.8	68.0	0.48	550	\$ .43	\$ .366	\$ .275
372007	77F100 	10.0	45.0	0.58	500	.43	.366	.275
372015	77F270 	27.0	7.6	0.94	390	.43	.366	.275
372023	77F330 	33.0	6.3	1.03	370	.43	.366	.275
372031	77F470 	47.0	6.3	1.22	340	.43	.366	.275
372040	77F820 	82.0	5.3	1.62	290	.43	.366	.275
372058	77F101 	100.0	4.8	1.80	275	.43	.366	.275
372066	77F221 	220.0	3.0	5.10	155	.43	.366	.275
372074	77F331 	330.0	2.6	6.40	137	.43	.366	.275
372082	77F391 	390.0	2.4	7.00	133	.43	.366	.275
372091	77F102 	1000.0	1.4	14.0	100	.43	.366	.275

\* L (µH) ±5%

### J.W. Miller 78F Series Value Equivalents

- High Q and self-resonant frequency
- Dielectric strength: 500V<sub>RMS</sub>
- Color bands identification
- Operating temp.: -55°C to +105°C
- Overall

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## Conformal Coated RF Chokes

### J. W. Miller 5300 Series Value Equivalents

- High current and high self-resonant frequency
- Low DCR
- Low cost
- Epoxy coated to protect winding from harsh environments

Part No.	Cross Ref. No.	L ±10% (μH)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Current Max. (mA)	Pricing		
						1	10	100
644332	5300-03	1.5	160.0	0.019	3300	\$1.29	\$1.16	\$1.00
644341	5300-10	5.6	64.0	0.074	1600	1.29	1.16	1.00
644367	5300-13	10.0	25.0	0.095	1500	1.29	1.16	1.00
644375	5300-17	22.0	8.4	0.19	1000	1.29	1.16	1.00
642476	5300-19	33.0	7.6	0.24	910	1.29	1.16	1.00
642492	5300-25	100.0	3.9	0.67	550	1.29	1.16	1.00
642530	5300-33	470.0	1.4	3.4	240	1.29	1.16	.88

## Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max. B = 7.0mm max. C = 0.48±0.5mm (except P/N 208143: 0.50±.05mm) D = 63±3mm

Quantity SAVE

Part No.	L (μH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (Ω)	Max. DC Curr. (mA)	Pricing		
							1	10	100
208143	10	60	7.96	28.7	1.56	670	\$.49	\$.45	\$.39
208194	100	45	2.52	5.0	4.98	240	.24	.204	.153
208215	330	45	0.796	2.7	13.2	140	.49	.31	.27
208223	470	45	0.796	2.2	21.4	120	.42	.341	.173
208240	1000	45	0.796	1.5	31.3	80	.49	.417	.313

## TRIAD Data Voice Coupling Transformers

- Meets requirements for access over leased private lines or through dial-up switched telephone network
- Applications: impedance matching, isolation, repeat coil, line balancing, and hybrid circuits
- Designed to meet FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz
- Dielectric strength FCC68.304: 1500V • Power level: -45dBm to +7dBm
- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz

### Data/Voice Coupling Transformers

- Typical frequency response: ±0.5

Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	100
630521	TY-307P	600	600	0	1.0	26	\$6.19	\$4.52	\$4.26

\* Split coil

### Data/Voice Dual Transformer Hybrid

- Trans-hybrid loss: 50dB

Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	100
630475	TY-300P	600 (4W)	600/600	0	0.8	30	\$4.39	\$3.73	\$3.55

## TRIAD PC Mount Audio Transformers

- Impedance matching: 10% over frequency range
- Applications: line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation, & input

Size: 5/8"H x 9/32"D x 13/16"L

Part No.	Product No.	Output (mW)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630432	TY-141P	200	10,000CT	10,000CT	4mA	\$3.79	\$2.75	\$2.59
630441	TY-142P	100	10,000CT	2,000CT	4mA	3.75	2.90	2.59
630459	TY-145P	100	600CT	600CT	15mA	3.65	3.09	2.62

Size: 1-1/8"H x 1-1/8"D x 1-3/8"L

Part No.	Product No.	Output (W)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630467	TY-146P	1	600CT/150	600CT/150	—	\$6.99	\$5.10	\$4.80

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

TRIAD

## Audio Transformers

- Epoxy molded case
- Meets the rigid requirements of MIL-T-27E
- High pot tested @ 1000V<sub>RMS</sub>
- Number of circuits: 1
- Primary DC max.: 3mA
- Gold plated leads
- 150VDC working voltage
- Power level: 50W



Part No.	Prod. No.	Matching Imp. (Ω)		Resistance (Ω)		Overall Turn Ratio	Pricing		
		Primary	Secondary	Primary	Secondary		1	10	100
630361	SP-33	1000	50	145	80	4.4:1	\$16.89	\$13.69	\$11.47
630424	SP-70	600	600	72	92	1:1	17.15	12.34	11.63

## Modem Coupling Transformers

125357:

- ±20% impedance matching and DC resistance matching
- Insulation resistance: 100MΩ
- Vacuum wax impregnated
- Core type: EI-14
- Hipot tested: 1000VAC

117760:

- Dielectric strength: 1250VAC
- Insertion loss: 2.50dB @ 1kHz



117760



125357

Part No.	Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125357	XFR6006A14	600CT	600CT	65	55	\$1.39	\$1.31	\$1.17
117760	671-8014	600	600	108	120	2.39	2.03	1.61

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temp.: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing			
					1	10	100	500
207521	NTC-101	100	3100	-3.5	\$.64	\$.53	\$.43	\$.35
207482	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207441	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207037	NTC-103	10k	4100	-4.6	.69	.57	.446	.366
207029	NTC-153	15k	4100	-4.6	.65	.58	.523	.414
207011	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
207002	NTC-503	50k	4200	-4.7	.59	.49	.39	.32
206991	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206982	NTC-204	200k	4500	-5.1	.59	.49	.39	.32

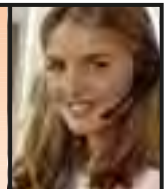
## BA Series Metal Oxide Varistor

- Bolt-down mount
- Bidirectional clamping polarity

BA Series		Max. Ratings (+85°C)		Characteristics at 25°C			Pricing		
		Continuous RMS Volt.	Transient DC Volt.	Energy (2ms)	Varistor Voltage at 1mA DC Test Current				
Part No.	Cross Ref. No.	V <sub>M</sub> (AC) Volts	V <sub>M</sub> (DC) Volts	W <sub>TM</sub> Joules	V <sub>N</sub> (DC) Volts	MIN Volts	MAX Volts	1	10
		Volts	Volts	Volts	Volts	Volts	Volts	100	
638223	V481BA60	480	640	1600	670	750	825	\$99.35	\$84.45
								\$83.51	

Order Anytime,  
Day or Night!

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by phone, fax, web or email. 1-800-831-4242





## LA Series Equivalent Radial Leaded Varistors



\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Size Dia. (mm)	Continuous Voltage		Transient Energy Joules	Maximum Clamping Voltage		Pricing		
			RMS $V_{M(AC)}$	DC $V_{M(DC)}$		$V_C$	$I_{PK(A)}$	1	10	100
667032	V130LA2R	7	130	200	17.5	340	10	\$.15	\$.112	
667091	V150LA2R	7	150	240	21	395	10	\$.13	.112	
667155	V275LA2R	7	275	430	40	710	10	\$.13	.112	
667041	V130LA5R	10	130	200	35	340	25	\$.16	.144	
667067	V140LA5R	10	140	220	39	360	25	\$.158	.144	
667104	V150LA5R	10	150	240	42	395	25	\$.15	.128	
667147	V250LA10R	10	250	390	70	650	25	\$.16	.144	
667366	V130LA10AR	14	130	200	70	340	50	.21	.19	.168
667055	V140LA10AR	14	140	220	78	360	50	.26	.228	.198
667112	V150LA10AR	14	150	240	84	395	50	.26	.228	.198
667180	V320LA20AR	14	320	510	190	845	50	.26	.228	.198
667201	V420LA20AR	14	420	680	130	1120	50	.26	.228	.198
667227	V480LA40AR	14	485	780	148	1290	50	.34	.308	.269
667243	V510LA40AR	14	510	820	157	1355	50	.49	.435	.384
667059	V130LA20BR	20	130	200	140	340	100	.41	.359	.313
667121	V150LA20AR	20	150	240	170	395	100	.41	.359	.313
667163	V275LA40AR	20	275	430	303	710	100	.41	.359	.313
667198	V320LA40BR	20	320	510	382	845	100	.37	.33	.30
667219	V420LA40BR	20	420	680	23	1120	100	.52	.468	.416
667235	V480LA80BR	20	485	780	265	1290	100	.60	.58	.52
667251	V510LA80BR	20	510	820	282	1355	100	.62	.55	.472

## LA Series Radial Leaded Varistors

- AC power line applications
- High energy absorption
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components"



LA Series		Size	Max. Ratings (+85°C)			Characteristics at 25°C		Pricing			
			Continuous	DC	Transient Energy (10/100µs)	Max Clamping Volt. @ $I_{PK}$ Value Curr. (8/20µs)	Max Clamping Volt. @ $I_{PK}$ Value Curr. (8/20µs)				
Part No.	Cross Ref. No.	Disc Dia. (mm)	$V_{M(AC)}$ Volts	$V_{M(DC)}$ Volts	$W_{TM}$ Joules	V	$I_{PK}$ Amps	1	10	100	500
34446	V130LA10A	14	130	175	38	340	50	\$.34	\$.306	\$.245	\$.184
34471	V250LA20A	14	250	330	72	650	50	.31	.28	.26	.23
34462	V130LA20A	20	130	175	70	340	100	.59	.56	.54	.52



## ZNR Transient/Surge Absorbers (Type D)

- Large withstanding surge current capability in compact sizes
- Large "Energy Handling Capability" absorbing transient overvoltages in compact sizes



For more Panasonic Transient/Surge Absorbers visit [www.Jameco.com](http://www.Jameco.com)

These products are sold on Tape and Reel

Part No.	Product No.	Varistor Voltage (V)	Maximum Allowable Voltage (V)		Clamping Voltage @ 8/20µs		Maximum Energy (Joule)		Maximum Peak Current @ 8/20µs (A)		Pricing		
			Acrrms	DC	Max. (V)	$I_P$ (A)	10/100µs	2ms	1 time	2 times			
864968	ERZ-V05D220R	22 (20-24)	14	18	48	1	0.7	0.5	250	125	★	Call	Call
864976	ERZ-V05D270R	27 (24-30)	17	22	60	1	0.9	0.7	250	125	★	Call	Call
864984	ERZ-V05D390R	39 (35-43)	25	31	86	1	1.2	0.9	250	125	★	Call	Call
864992	ERZ-V05D560R	56 (50-62)	35	45	123	1	1.8	1.3	250	125	★	Call	Call
865004	ERZ-V05D680R	68 (61-75)	40	56	150	1	2.2	1.6	250	125	★	Call	Call
865012	ERZ-V07D201R	200 (185-225)	130	170	340	10	17.5	12.15	1750	1250	★	Call	Call
865021	ERZ-V07D220R	22 (20-24)	14	18	4.3	2.5	1.3	1.1	500	250	★	Call	Call
865039	ERZ-V07D330R	33 (30-36)	20	26	65	2.5	2	1.6	500	250	★	Call	Call
922718	ERZ-V07D390R	39 (35-43)	25	31	77	2.5	2.4	1.9	500	250	★	Call	Call
865047	ERZ-V07D431R	430 (387-473)	275	350	710	10	40	27.5	1750	1250	★	Call	Call
865055	ERZ-V07D470R	47 (42-52)	30	38	93	2.5	2.8	2.3	500	250	★	Call	Call
865063	ERZ-V07D471R	470 (459-561)	320	410	845	10	45	32	1750	1250	★	Call	Call
865071	ERZ-V07D560R	56 (50-62)	35	45	110	2.5	3.4	2.7	500	250	★	Call	Call
865080	ERZ-V07D820R	82 (74-90)	50	65	135	10	7	5	1750	1250	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend			
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## Raychem

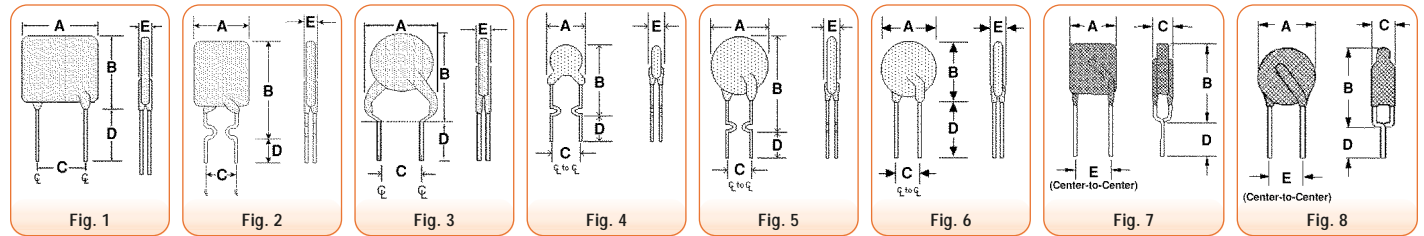
## Polyswitch® PTC Resettable Fuses

**NEW**

• Flame retardant epoxy polymer, YL94V-0 rated

• For detailed product datasheet, please see [www.Jameco.com](http://www.Jameco.com)

For more Raychem fuses visit  
[www.Jameco.com](http://www.Jameco.com)



\* Prepackaged: please order in increments of 5

Part Number	Product Number	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig	Size (mm)				Pricing		
					A	B	C	D	1	5	100

### RGE Series (16V/100A max.)

923374	RGE300	3	5.1	1	7.1	11	5.8	7.5	★	Call	Call
1393715	RGEF300	3	5.1	1	7.1	11	5.8	7.5	★	Call	Call
923391	RGE500	5	8.5	1	10.4	14.3	5.8	7.5	★	Call	Call
865952	RGE700	7	11.9	1	11.2	19.7	5.8	7.5	★	Call	Call
865979	RGE900	9	15.3	1	14	21.7	5.8	7.5	★	Call	Call

### RUE Series (30VDC/100ADC; 30VAC/70ARMS)

923411	RUE090	0.9	1.8	2	7.4	12.2	5.8	7.6	*	\$.354	\$.376
866146	RUEF090	0.9	1.8	2	7.4	12.2	5.8	7.6	*	.281	.259
923438	RUE110	1.1	2.2	2	7.4	14.2	5.8	7.6	*	.362	.385
866171	RUEF110	1.1	2.2	2	7.4	14.2	5.8	7.6	*	.281	.265
923454	RUE135	1.35	2.7	2	8.9	13.5	5.8	7.6	*	.29	.273
866200	RUEF135	1.35	2.7	2	8.9	13.5	5.8	7.6	*	.371	.385
923471	RUE160	1.6	3.2	2	8.9	15.2	5.8	7.6	*	.383	.407
923497	RUE185	1.85	3.7	2	10.2	15.7	5.8	7.6	*	.398	.412
866234	RUEF185	1.85	3.7	2	10.2	15.7	5.8	7.6	*	.398	.412
923518	RUE250	2.5	5	2	11.4	18.3	5.8	7.6	.45	.41	.539
866269	RUEF250	2.5	5	2	11.4	18.3	5.8	7.6	*	.388	.343
923534	RUE300	3	6	1	11.4	16.5	5.8	7.6	.48	.43	.457
866293	RUEF300	3	6	1	11.4	16.5	5.8	7.6	*	.359	.333
866074	RUE300U	3	6	1	11.4	16.5	5.8	7.6	*	.339	.302
923551	RUE400	4	8	1	14	19.3	5.8	7.6	.51	.456	.421
923657	RUEF400	4	8	1	14	19.3	5.8	7.6	*	.388	.363
923577	RUE500	5	10	1	14	24.1	10.9	7.6	.56	.508	.527
923593	RUE600	6	12	1	16.5	24.1	10.9	7.6	.51	.46	.41
866322	RUEF600	6	12	1	16.5	24.1	10.9	7.6	.51	.46	.41
923614	RUE700	7	14	1	19.1	25.9	10.9	7.6	.54	.48	.43
923631	RUE800	8	16	1	21.6	28.4	10.9	7.6	★	Call	Call
866111	RUE900	9	18	1	24.1	29	10.9	7.6	★	Call	Call
1400111	RUEF900	9	18	1	24.1	29	10.9	7.6	.75	.70	.64

### RXE Series (60V/40A max.)

866357	RXE005	0.05	0.1	3	8	8.3	5.8	7.6	*	\$.24	\$.224
866630	RXEF005	0.05	0.1	3	8	8.3	5.8	7.6	*	.24	.224
923673	RXE010	0.1	0.2	4	7.4	11.6	5.8	7.6	*	.235	.219
866664	RXEF010	0.1	0.2	4	7.4	11.6	5.8	7.6	*	.235	.219
923690	RXE017	0.17	0.34	5	7.4	12.7	5.8	7.6	*	.239	.222
866701	RXEF017	0.17	0.34	5	7.4	12.7	5.8	7.6	*	.239	.222
866736	RXEF020	0.2	0.4	5	7.4	11.7	5.8	7.6	*	.242	.226
866761	RXEF025	0.25	0.5	5	7.4	12.7	5.8	7.6	*	.238	.228

★ Please call or visit our website for minimum order quantity and pricing.

\* Prepackaged: please order in increments of 5

Part Number	Product Number	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig	Size (mm)				Pricing		
					A	B	C	D	1	5	100

### RXE Series (72V/40A max.)

923711	RXE020	0.2	0.4	5	7.4	11.7	5.8	7.6	*	\$.24	\$.224
923737	RXE025	0.25	0.5	5	7.4	12.7	5.8	7.6	*	.242	.226
923753	RXE030	0.3	0.6	5	7.4	12.7	5.8	7.6	*	.243	.228
866808	RXEF030	0.3	0.6	5	7.4	12.7	5.8	7.6	*	.245	.23
923770	RXE040	0.4	0.8	5	7.6	13.5	5.8	7.6	*	.27	.253
866832	RXEF040	0.4	0.8	5	7.6	13.5	5.8	7.6	*	.266	.248
923796	RXE050	0.5	1	5	7.9	13.7	5.8	7.6	*	.272	.255
924019	RXEF050	0.5	1	5	7.9	13.7	5.8	7.6	*	.27	.254
923817	RXE065	0.65	1.3	5	9.4	14.5	5.8	7.6	*	.274	.257
866470	RXE065S	0.65	1.3	6	9.7	14.5	5.8	7.6	*	.283	.255
866867	RXEF065	0.65	1.3	5	9.4	14.5	5.8	7.6	*	.274	.257
923833	RXE075	0.75	1.5	5	10.2	15.2	5.8	7.6	*	.276	.26
866891	RXEF075	0.75	1.5	5	10.2	15.2	5.8	7.6	*	.276	.26
923850	RXE090	0.9	1.8	5	11.2	15.8	5.8	7.6	*	.28	.265
866921	RXEF090	0.9	1.8	5	11.2	15.8	5.8	7.6	*	.28	.265
923876	RXE110	1.1	2.2	6	12.8	17.5	5.8	7.6	*	.282	.265
866533	RXE110-1	1.1	2.2	6	12.8	17.5	5.8	25.4	*	.296	.281
866955	RXEF110	1.1	2.2	6	12.8	17.5	5.8	7.6	*	.282	.265
923892	RXE135	1.35	2.7	6	14.5	19.1	5.8	7.6	*	.294	.275
923913	RXE160	1.6	3.2	6	16.3	20.8	5.8	7.6	*	.301	.282
924035	RXEF160	1.6	3.2	6	16.3	20.8	5.8	7.6	*	.301	.282
923930	RXE185	1.85	3.7	6	17.5	22.4	5.8	7.6	*	.323	.305
867026	RXEF185	1.85	3.7	6	17.5	22.4	5.8	7.6	*	.323	.305
923956	RXE250	2.5	5	6	20.8	25.4	10.9	7.6	*	.36	.338
924051	RXEF250	2.5	5	6	20.8	25.4	10.9	7.6	*	.36	.338
923972	RXE300	3	6	6	23.9	28.6	10.9	7.6	*	.387	.365
867077	RXEF300	3	6	6	23.9	28.6	10.9	7.6	*	.387	.365
923999	RXE375	3.75	7.5	6	27.2	31.8	10.9	7.6	*	.41	.38
924078	RXEF375	3.75	7.5	6	27.2	31.8	10.9	7.6	*	.41	.38

### TRF Series (Fault voltage: 250VRMS)

Operating voltage: 60VDC; Interrupt Current: 3ARMS

924140	TRF250-120	0.12	0.24	7	6.5	11	4.6	4.7	*	\$.424	\$.403
867341	TRF250-120R	0.12	0.24	7	6.5	11	4.6	4.7	*	.454	.414
867405	TRF250-145-RA-B-0.5R	0.145	0.29	7	6.5	11	4.6	4.7	.62	.58	.53
1373010	TRF250-145R	0.145	0.29	7	6.5	11	4.6	4.7	★	Call	Call

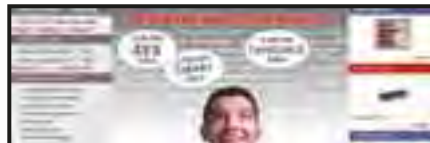
Operating voltage: 250VDC; Interrupt Current: 3ARMS

867464	TRF600-150R	0.15	0.3	7	9	12.5	4.6	4.7	\$.73	\$.67	\$.62
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Operating voltage: 100VDC; Interrupt current: 10ARMS

867430	TRF250-180R	0.18	0.65	8	9	12	3.8	4.7	.51	\$.465	\$.438
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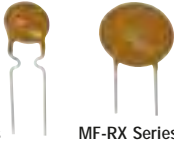
♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## MF-R & MF-RX Series PTC Resettable Fuses

**NEW**



MF-R Series

MF-RX Series

- Applications: almost anywhere there is a low voltage power supply and a load to be protected including computers & peripherals, general electronics, and automotive applications.
- Operating temperature: -40°C to 85°C

### MF-R Series

\* Prepackaged: please order in increments of 5

Part No.	Product No.	V max. @ 1 max.	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Pricing		
					1	5	100
859350	MF-R010	60V@40A	0.1	0.2	*	\$.30	\$.282
776116	MF-R010-0-99	60V@40A	0.1	0.2	*	.466	.392
776124	MF-R017	60V@40A	0.17	0.34	*	.30	.282
776132	MF-R025	60V@40A	0.25	0.5	*	.319	.30
776141	MF-R030	60V@40A	0.3	0.6	*	.319	.30
776159	MF-R040	60V@40A	0.4	0.8	*	.338	.318
859376	MF-R050	60V@40A	0.5	1	*	.338	.318
776167	MF-R050-0-99	60V@40A	0.5	1	.51	.47	.43
776175	MF-R075	60V@40A	0.75	1.5	*	.338	.318
776183	MF-R090	60V@40A	0.9	1.8	*	.338	.318
859384	MF-R110	30V@40A	1.1	2.2	*	.338	.318
776212	MF-R135	30V@40A	1.35	2.7	*	.338	.318
776221	MF-R135-0-99	30V@40A	1.35	2.7	.54	.465	.45
859413	MF-R160	30V@40A	1.6	3.2	*	.375	.353
776239	MF-R185	30V@40A	1.85	3.7	*	.375	.353
776247	MF-R250	30V@40A	2.5	5	.64	.59	.54
859448	MF-R300	30V@40A	3	6	.50	.43	.41
776255	MF-R400	30V@40A	4	8	.52	.45	.42
776263	MF-R500	30V@40A	5	10	.57	.49	.46
776271	MF-R600	30V@40A	6	12	.59	.51	.48
776280	MF-R800	30V@40A	8	16	.75	.71	.71
859472	MF-R900	30V@40A	9	18	.68	.58	.55
776204	MF-R1100	16V@100A	11	22	.81	.76	.76
776191	MF-R110-0-99	16V@100A	11	22	.54	.465	.48

\* See manufacturer's datasheet for marking details

### MF-RX Series

Part No.	Product No.	V max. @ 1 max.	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	1	5	100
776298	MF-RX110	60V@40A	1.1	2.2	\$.52	\$.48	\$.44
776301	MF-RX160	60V@40A	1.6	3.2	.58	.53	.49
859501	MF-RX185	60V@40A	1.85	3.7	*	.375	.353
776319	MF-RX250	60V@40A	2.5	5	.63	.59	.54
776327	MF-RX375	60V@40A	3.75	7.5	.69	.64	.59



## Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

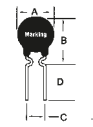


Fig. 1

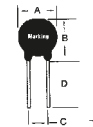


Fig. 2

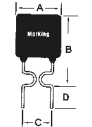


Fig. 3

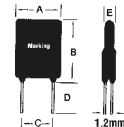


Fig. 4

### RA Series

- Rated voltage: (V<sub>MAX</sub>): 60V
- Lead length (D): 7.6mm min.
- Max. current: (I<sub>MAX</sub>): 40A
- Thickness (E): 3.1mm max.

Part No.	Mfg. P/N	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199815	RA010-60	0.10	0.20	1	7.4	12.7	5.1	\$.54	\$.49	\$.47	\$.37
199832	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.55	.493	.469	.373
199850	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.55	.493	.469	.373
199858	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.54	.49	.47	.37
199866	RA040-60	0.40	0.80	1	7.6	13.5	5.1	.54	.48	.45	.35
199874	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.58	.55	.51	.38
199882	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.65	.57	.517	.409
199890	RA075-60	0.75	1.50	1	10.4	15.2	5.1	.54	.49	.389	.292
199903	RA090-60	0.90	1.80	1	11.7	15.8	5.1	.52	.49	.45	.30
199912	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199938	RA160-60	1.60	3.20	2	16.3	21.3	5.1	.72	.68	.65	.50
199946	RA185-60	1.85	3.70	2	17.8	22.9	5.1	.59	.55	.45	.39
199953	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.68	.63	.56	.42

### RB Series

- Rated voltage: (V<sub>MAX</sub>): 30V
- Lead length (D): 7.6mm min.
- Max. current (I<sub>MAX</sub>): 40A
- Thickness (E): 3.0mm max.

Part No.	Mfg. P/N	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig.	A	B	C	1	10	100	500
199989	RB090-30	0.90	1.80	3	7.4	12.2	5.1	\$.53	\$.47	\$.39	\$.29
199997	RB110-30	1.10	2.20	3	7.4	14.2	5.1	.53	.47	.43	.34
200003	RB135-30	1.35	2.70	3	8.9	13.5	5.1	.48	.46	.43	.34
200030	RB185-30	1.85	3.70	3	10.2	15.7	5.1	.48	.43	.39	.32
200046	RB300-30	3.00	6.00	4	11.4	17.3	5.1	.57	.52	.48	.37
200062	RB500-30	5.00	10.00	4	14.0	24.9	10.2	.78	.70	.63	.51

Blue Part No. = Limited Quantity Available

## 1 1/4" x 1/4" Standard Fuses

### Fast Acting Fuses (250V) AGC/3AG Fuses

\* Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
69404	250mA	AGC-250mA	\$.349	\$.314	\$.279
10410	500mA	AGC-1/2	.23	.21	.17
10373	1A	AGC-1	.341	.205	.188
197528	1.6A	AGC-1.6	.198	.158	.119
10382	2A	AGC-2	.24	.144	.132
197536	2.5A	AGC-2 1/2	.26	.12	.10
69439	3A	AGC-3	.334	.201	.184
197544	4A	AGC-4	.264	.24	.216
10401	5A	AGC-5	.22	.20	.18
197552	6.3A	AGC-6.3	.264	.24	.216
69462	10A	AGC-10	.30	.264	.24
186301	16A	—	.25	.22	.20

### Slow Blow Fuses (250V) MDL/3AG Fuses

Part No.	Amps	Cross Ref.	1	10	100	1000
25654	250mA	MDL-1/4	\$.62	\$.56	\$.446	\$.335
25689	500mA	MDL-1/2	.75	.63	.535	.396
25639	1A	MDL-1	1.15	.99	.84	.62
25646	2A	MDL-2	.65	.57	.54	.468
69535	3A	MDL-3	.55	.44	.34	.28
25672	5A	MDL-5	.69	.543	.42	.346
69570	10A	MDL-10	.90	.78	.62	.48

## 5mm x 20mm Mini Fuses

### Fast Acting Fuses (250V) GMA Fuses

- Recommended for new designs
- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	500	1000
103887	250mA	GMA-250mA	\$.24	\$.18	\$.132	\$.12
102041	500mA	GMA-500mA	.22	.165	.121	.11
103907	1A	GMA-1	.20	.15	.11	.10
103916	2A	GMA-2	.305	.22	.159	.147
103924	3A	GMA-3	.335	.251	.184	.167
103932	5A	GMA-5	.297	.223	.164	.149

### Slow Blow Fuses (250V) GMD Fuses

\* Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
197501	500mA	GMD-500mA	\$.29	\$.26	\$.23
197464	1A	GMD-1	.348	.312	.276
197472	2A	GMD-2	.35	.32	.29
197482	3.15A	GMD-3.15	.40	.36	.33
197500	5A	GMD-5	.468	.428	.388

Blue Part No. = Limited Quantity Available

www.Jameco.com

For more Bourns Fuses,  
visit our website today!



- 250V
- 1.25"L x 0.25"Dia.
- UL/CSA/CE



3AG-312



3AG-313



3AB-314

## 3AG Type Fast Acting Glass Fuses

### 312 Series

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Amps	1	10	100
652826	312.062HXP	1/16	.90	.80	.72
652834	312.100HXP	1/10	.90	.81	.72
652842	312.125HXP	1/8	.83	.77	.73
652851	312.175HXP	0.175	.82	.77	.67
652869	312.187HXP	3/16	.90	.86	.65
652877	312.200HXP	2/10	.80	.76	.67
652885	312.250HXP	1/4	.82	.77	.73
652893	312.300HXP	3/10	.82	.77	.73
652906	312.375HXP	3/8	.41	.354	.32
652914	312.500HXP	1/2	*	.298	.283
652922	312.600HXP	6/10	.28	.251	.222
652931	312.750HXP	3/4	.28	.251	.22
652949	312001.HXP	1	*	.226	.186
652957	3121.25HXP	1 1/4	*	.197	.186
652965	31201.5HXP	1 1/2	*	.223	.196
652973	312002.HXP	2	*	.223	.196
652981	312025.HXP	2 1/2	*	.223	.196
652990	312003.HXP	3	*	.223	.196
653001	312004.HXP	4	.28	.251	.225
653010	312005.HXP	5	.28	.251	.225
653028	312006.HXP	6	.28	.263	.25
653036	312007.HXP	7	.28	.251	.227
653044	312008.HXP	8	.38	.332	.309
653052	312010.HXP	10	.39	.368	.35

## Glass and Ceramic Fuses

### 3AG Type Slow Blow Glass Fuses

#### 313 Series

Part No.	Product No.	Amps	1	10	100
653263	313.010HXP	1/100	\$2.34	\$2.07	\$1.88
653271	313.031HXP	1/32	2.34	2.07	1.88
653280	313.040HXP	4/100	2.34	2.07	1.88
653298	313.062HXP	1/16	1.32	1.17	1.06
653301	313.100HXP	1/10	1.65	1.56	1.44
653319	313.125HXP	1/8	1.65	1.56	1.43
653327	313.150HXP	15/100	1.65	1.56	1.45
653335	313.187HXP	3/16	1.45	1.38	1.31
653343	313.200HXP	2/10	1.07	1.01	.93
653351	313.250HXP	1/2	.95	.91	.85
653360	313.300HXP	3/10	.95	.92	.85
653378	313.375HXP	3/8	.95	.91	.85
653386	313.400HXP	4/10	1.29	1.25	1.18
653394	313.500HXP	1/2	.89	.89	.84
653407	313.600HXP	6/10	.89	.89	.84
653415	313.700HXP	7/10	.89	.89	.84
653423	313.750HXP	3/4	.89	.89	.84
653431	313.800HXP	8/10	.89	.89	.84
653440	313001HXP	1	.89	.85	.81
653458	31301.2HXP	1 1/2	.75	.68	.64
653466	3131.25HXP	1 1/2	.69	.66	.63
653474	31301.5HXP	1	.75	.68	.64
653482	31301.6HXP	1 1/2	.55	.47	.425
653491	313002HXP	2	.85	.85	.81
653503	31302.5HXP	2	.74	.69	.66
653511	313003HXP	3	.83	.82	.70
653520	31303.2HXP	3 1/2	.74	.68	.66
653538	313004HXP	4	.84	.79	.74
653546	313005HXP	5	.84	.79	.74
653554	3136.25HXP	6 1/4	.84	.79	.74

Lower\$\$\$

### 3AG Type Slow Blow Glass Fuses

#### 313 Series (Cont.)

Part No.	Product No.	Amps	1	10	100
653562	31306.3HXP	6 3/4	.62	.56	.50
653571	313007HXP	7	.84	.79	.74
653589	313008HXP	8	.84	.79	.74
653597	313010HXP	10	1.05	1.00	.95
653600	313012HXP	12	1.19	1.18	1.12
653618	313015HXP	15	1.19	1.17	1.12
653626	313020HXP	20	.86	.76	.71
653634	313025HXP	25	1.09	1.01	.94
653642	313030HXP	30	1.08	1.01	.95

### 3AB Type Fast Acting Ceramic Fuses

#### 314 Series

Part No.	Product No.	Amps	1	10	100
656827	314.125HXP	1/8	\$1.25	\$1.11	\$1.05
656835	314.250HXP	1/4	1.15	1.09	1.01
656843	314.500HXP	1/2	.83	.75	.71
656851	314.750HXP	3/4	.80	.76	.72
656860	314001HXP	1	.71	.68	.63
656878	314002.HXP	2	.72	.68	.65
656886	314003.HXP	3	.71	.67	.63
656894	314004.HXP	4	.71	.67	.63
656915	314005.HXP	5	.71	.67	.63
656923	314006.HXP	6	.71	.67	.63
656931	314007.HXP	7	.71	.67	.63
656940	314008.HXP	8	.83	.82	.76
656958	314010.HXP	10	.83	.82	.76
656966	314012.HXP	12	.73	.68	.63
656974	314015.HXP	15	.71	.67	.63
656982	314020.HXP	20	1.06	1.00	.92
656991	314025.HXP	25	1.06	1.00	.92
657002	314030.HXP	30	1.06	1.00	.92

## 5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat

Part No.	Description	1	10	100
102832	Fuse holder UL/CSA	\$2.95	\$2.69	\$2.39

## In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108784 orange

### 1 1/4" x 1/4" Standard

Part No.	AWG	Wire Lengths	Body Size(L)	Body Color	1	10	100
109322	22	3.5/3"	2.4"	Black	.78	.70	.63
102868	20	3/3"	2.2"	White	.78	.70	.58
151918	18	6/6"	2.4"	White	1.19	1.02	.78
108784	16	21/26"	2.2"	Black	1.69	1.47	1.15
108791	14	19/25"	2.5"	Black	1.91	1.74	1.26

### 5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size(L)	1	10	100
109330	20	Red	1.8"	.69	.56	.45

For additional Littelfuse fuses visit  
[www.Jameco.com](http://www.Jameco.com)

## Panel Mount Fuse Holders

### 1 1/4" x 1/4" Standard Thumbscrew Cap

- Straight solder terminal; 10A @ 250VAC

Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120994	—	1.95"L x .71"Dia.	.58"Dia. (Double D-style)	\$.95	\$.83	\$.66	\$.59
18703	UL/CSA	2.05"L x .71"Dia.	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.15	.99

### 5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal; Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150463	—	6A @ 250VAC	.50"Dia. x .43"Flat	\$.99	\$.89	\$.79	\$.69
102825	UL/CSA	10A @ 250VAC	.50"Dia.	1.19	.99	.87	.71

## Fuse Clips

- Low contact resistance
- Low profile
- Withstands shock/vibration
- Prepackaged: please order in increments of 10

Part No.	Description	Fig.	Size (H" x W" x D" x P")	1	10	100	1000
102860	5mm, front leads	1	.37 x .25 x .21 x .19	\$.162	\$.122	\$.068	
119280	5mm, side leads	2	.33 x .25 x .20 x .21	.084	.065	.041	
102842	1/4", front leads (10A)	3	.32 x .27 x .25 x .23	.09	.08	.07	
220733	5mm, front leads (10A)	3	.33 x .27 x .25 x .29	.15	.10	.07	

## Velleman 5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 specifications
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	25
645343	K/FF	\$12.29	\$11.68	\$11.09

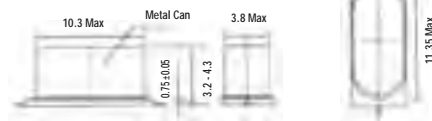
JAMECO ValuePro

## SMD HC49US Crystals

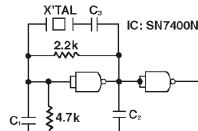
The CSM-7 is an excellent choice for SMD version of the HC49US leaded crystal. The CSM-7 has a case height of 4.3mm maximum in a resistance weld metal package.

- Frequency stability:  $\pm 100$ ppm
- Drive level: 0.5mW
- Aging (first year @ +25°C):  $\pm 5$ ppm
- Operating temperature range: -40°C to +85°C

Quantity SAVE



- Frequency calibration tolerance:  $\pm 50$ ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0mW maximum
- Shunt capacitance: 7pF maximum
- Frequency stability tolerance:  $\pm 50$ ppm from -10°C to +60°C



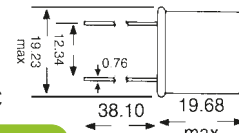
Application Reference (4-14MHz) (parallel resonance)

C1: 150-470 pF

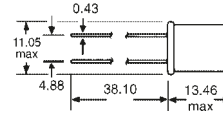
C2: 220-820 pF

C3: Match crystal impedance

Quantity SAVE



HC33/U Case



HC49/U (HC18/U) Case

Dimensions in millimeters

HC49/US Low Profile Case

Part No.	Product No.	Freq. (MHz)	Imped.	1	10	100
325868	JVP-325868	3.579545	17pF	.83	.70	.53
325876	JVP-325876	3.6864	20pF	.85	.72	.60
325892	JVP-325892	6.0	32pF	.83	.70	.525
325905	JVP-325905	7.3728	20pF	.83	.70	.525
325913	JVP-325913	8.0	18pF	.85	.72	.54
325921	JVP-325921	12.0	20pF	.83	.70	.525
325930	JVP-325930	14.31818	20pF	.83	.70	.525
325956	JVP-325956	18.432	20pF	.85	.71	.58
325964	JVP-325964	19.6608	20pF	.83	.70	.525
325981	JVP-325981	24.0	20pF	.83	.70	.525

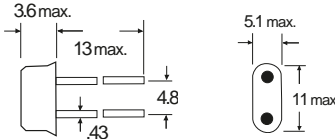
## HC33/U Case

Part No.	Frequency (MHz)	Impedance	1	10	100
14349	1.0	13pF	\$5.05	\$4.58	\$4.03

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HC49/S Case  
(Low Profile Crystals)

- Frequency range: 3.5 to 70.0MHz
- Operating temperature: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging:  $\pm 5$ ppm/year max.
- Frequency stability tolerance:  $\pm 50$ ppm

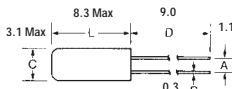


Part No.	Comparable:	Freq. (MHz)	Imped.	Max. Resist.	Pricing
137816	CY3.57LP	3.579545	17pF	150Ω	.34 .254
137832	CY4LP	4.000	17pF	120Ω	.46 .345
137859	CY8LP	8.000	Series	60Ω	.37 .332
137875	CY11.05LP	11.0592	Series	50Ω	1.05 .81
137891	CY16LP	16.000	Series	40Ω	.42 .384

JAMECO ValuePro

## Tuning Fork

- Operating temperature range: -10°C to +60°C
- Frequency tolerance:  $\pm 20$ ppm
- Drive level: 1mW
- Aging for first year:  $\pm 3$ ppm (max. +25°C)
- Frequency: 32.768kHz



Part No.	Comparable to:	Imped.	1	10	100	1000
14584	CY32.76	10.5pF	.89	.79	.69	.52
325243	JVP-325243	12.5pF	.24	.219	.159	.142

Part No.	Frequency (MHz)	Impedance	1	10	100
324283	2.0	Series	.94	.85	.64
324275	2.0	20pF	.95	.90	.82
324312	2.5	Series	.78	.71	.53
324321	3.0	Series	.78	.71	.53
324347	3.6864	18pF	.31	.284	.213
324363	4.0	Series	.31	.284	.274
324355	4.032	20pF	.32	.288	.216
324401	4.9152	Series	.32	.272	.204
324380	4.9152	20pF	.31	.284	.213
324427	5.0	Series	.31	.284	.213
324419	5.0	20pF	.31	.284	.213
324443	5.185	32pF	.31	.284	.213
324460	6.0	Series	.31	.284	.213
324451	6.0	32pF	.31	.284	.213
324478	6.5536	12pF	.31	.284	.213
324486	7.68	20pF	.31	.284	.213
324494	8.0	18pF	.41	.347	.261
324507	8.0	20pF	.32	.272	.204
324515	8.0	32pF	.31	.284	.213
324531	9.216	Series	.31	.284	.213
324734	9.8304	20pF	.36	.324	.243
325227	11.0592	20pF	.36	.324	.243
324523	9.216	20pF	.31	.284	.213
324540	9.9304	20pF	.31	.284	.213
324128	11.0592	Series	.31	.284	.213
324110	11.0592	32pF	.22	.199	.175
324136	11.52	Series	.31	.284	.213
324144	11.98135	Series	.31	.284	.213
324152	12.288	20pF	.31	.284	.249
324161	13.5168	Series	.31	.284	.213
324179	14.31818	Series	.31	.284	.213
324187	14.7456	20pF	.31	.284	.213
324195	14.7456	Series	.31	.284	.213
324208	16.0	20pF	.32	.29	.265
324216	18.0	20pF	.31	.284	.213
324232	18.432	20pF	.31	.284	.274
324241	19.6608	20pF	.31	.284	.213
324259	19.6608	Series	.31	.284	.213
324267	20.0	20pF	.31	.284	.274
324304	22.1184	Series	.31	.284	.213
324339	35.2512	18pF	.31	.284	.213
324398	49.86	20pF	.31	.284	.213

## HC49/U (HC18/U) Case (Continued)

Part No.	Frequency (MHz)	Impedance	1	10	100
102613	1.8432	18pF	.99	.91	.68
102621	2.0	Series	.94	.89	.80
101274	2.4576	32pF	.72	.60	.45
14525	3.2768	18pF	.32	.292	.266
14533	3.579545	18pF	.40	.37	.29
14568	3.6864	18pF	.32	.292	.266
14592	4.0	20pF	.32	.269	.202
14621	4.9152	Series	.34	.308	.276
14681	6.0	18pF	.34	.308	.279
539743	6.176	18pF	.28	.238	.176
14710	7.3728	30pF	.32	.292	.266
14728	8.0	Series	.38	.35	.31
14381	10.0	Series	.79	.69	.59
120061	11.0592	Series	.80	.71	.68
14402	12.0	Series	.80	.68	.50
537799	14.31818	Series	.28	.238	.179
14453	16.0	Series	.68	.61	.458
14517	20.0	Series	.79	.69	.59

## HC49/US Low Profile Case

Part No.	Frequency (MHz)	Impedance	1	10	100
324988	3.6864	18pF	.37	.315	.236
324962	4.0	20pF	.36	.325	.31
324937	4.096	20pF	.36	.324	.243
324831	7.3728	20pF	.46	.397	.298
324822	7.3728	20pF	.62	.57	.43
324814	7.68	20pF	.36	.324	.243
324806	8.0	18pF	.36	.324	.243
324785	8.0	20pF	.44	.389	.292
324777	8.0	32pF	.36	.324	.243
324742	9.216	Series	.36	.324	.243
325219	11.0592	32pF	.36	.324	.243
325201	12.0	20pF	.46	.42	.34
325198	12.0	20pF	.62	.57	.43
325180	12.0	32pF	.36	.324	.243
325171	12.288	20pF	.36	.323	.242
325112	18.432	20pF	.39	.356	.32
325104	18.432	20pF	.62	.57	.43
325068	20.0	20pF	.36	.325	.31
325059	20.0	20pF	.62	.57	.43
325024	24.0	20pF	.62	.57	.43
325016	24.576	20pF	.36	.324	.243

† Industrial temperature range (-40°C to 85°C)

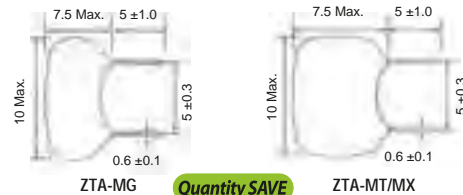
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## JAMECO ValuePro Ceramic Resonators

The ZTA series ceramic resonator offers wide frequency range and extended temperature range capabilities.

- Frequency accuracy:  $\pm 0.5\%$  @ 25°C
- Wide frequency range
- Extended temperature range: -20°C to +85°C
- Temperature stability:  $\pm 0.3\%$
- Aging for 10 years:  $\pm 0.3\%$
- Withstanding voltage (5 sec.): 100V max.
- High stability
- Low profile
- Drive level: 0.5mw



- Resonant resistance: 30Ω max.

Part No.	Comparable to:	Freq. (MHz)	Pins	Pricing		
				1	10	100
324591	TZTA-3M58MG	3.58	2	\$ .28	\$ .255	\$ .191
324611	TZTA-4.19MG	4.19	2	.38	.319	.239
324700	TZTT-4.19MG	4.19	3	.42	.355	.266
324620	TZTA-6.00MT	6.0	2	.28	.26	.195
324718	TZTT-6.00MT	6.0	3	.31	.284	.213

- Resonant resistance: 25Ω max.

Part No.	Comparable to:	Freq. (MHz)	Pins	Pricing		
				1	10	100
324638	TZTA-8.00MT	8.0	2	\$ .28	\$ .26	\$ .195
324566	TZTA-12.00MT	12.0	2	.28	.255	.191
324654	TZTT-12.00MT	12.0	3	.32	.288	.216

- Resonant resistance: 55Ω max.

Part No.	Comparable to:	Freq. (MHz)	Pins	Pricing		
				1	10	100
324574	TZTA-16.00MT	16.0	2	\$ .28	\$ .255	\$ .191
324662	TZTT-16.00MT	16.0	3	.32	.288	.23
324582	TZTA-20.00MT	20.0	2	.29	.259	.194
324671	TZTT-20.00MT	20.0	3	.32	.288	.23

## JAMECO ValuePro Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail;
- machine tooled on 4 pins
- Good for prototyping and PCB mounting

Part No.	Description	1	10	100	1000
676385	Half can size	\$ .51	\$ .42	\$ .33	\$ .27

## ARIES Oscillator Socket

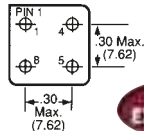
- Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard with 200μ" (5.08μm) 93/7 tin/lead plating
- Operating temp.: 221°F (105°C)
- Contact current: 3A
- Center pin spacing: .300" (7.62mm)
- Suggested PCB hole size: .030" (.76mm)

Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291283	1108800	8	.40 x .40	\$ .56	\$ .47	\$ .38

## JAMECO ValuePro TTL Oscillators (Half Can)

Specifications:

- Input voltage: +5VDC  $\pm 0.5$ VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 676385, below left
- Frequency stability  $\pm 100$ ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.

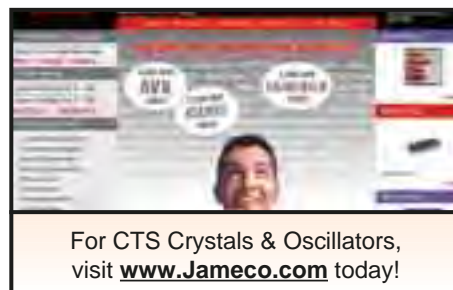


Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
				1	10	100
325500	3.579545	15mA	10ns	\$1.38	\$1.27	\$1.16
325518	3.6864	15mA	10ns	1.35	1.22	.92
325526	4.0	15mA	10ns	1.32	1.21	.90
325534	5.0688	15mA	10ns	1.32	1.21	.90
325542	6.0	15mA	10ns	1.38	1.27	1.16
325551	6.144	15mA	10ns	1.32	1.21	.90
325569	8.0	30mA	10ns	1.74	1.49	1.12
325577	9.216	30mA	10ns	1.32	1.21	.90
325585	9.8304	30mA	10ns	1.35	1.22	.92
354829	10.0	25mA	5ns	1.35	1.27	1.01
325593	11.0592	30mA	10ns	1.35	1.22	.92
325606	12.0	30mA	10ns	1.35	1.22	1.17
325614	14.31818	30mA	10ns	1.35	1.22	.92
325622	16.0	30mA	10ns	1.35	1.22	.92
325631	16.257	30mA	10ns	1.35	1.22	.92
325649	18.432	30mA	10ns	1.75	1.59	.98
325657	19.6608	30mA	10ns	1.35	1.22	.92
325665	20.0	30mA	10ns	1.35	1.22	1.01
325673	25.0	70mA	5ns	1.35	1.22	.92
325681	28.322	70mA	5ns	1.35	1.22	.92
325690	30.0	46mA	5ns	1.35	1.22	.92
325702	32.0	70mA	5ns	1.35	1.22	.92
325711	32.514	70mA	5ns	1.35	1.22	.92
325730	40.0	70mA	5ns	1.35	1.22	1.17
325737	48.0	70mA	5ns	1.39	1.18	.89
325745	64.0	70mA	5ns	1.62	1.47	1.30

### Other Manufacturers

325462	1.0	15mA	10ns	\$1.35	\$1.22	\$ .96
325471	1.2288	15mA	10ns	1.20	1.09	.82
325489	1.8432	15mA	10ns	1.38	1.27	.95
325497	2.0	25mA	5ns	1.21	1.10	.83
102779	10.0	45mA	6ns	1.45	1.31	1.04

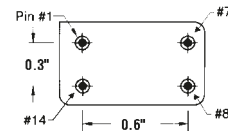


## TTL Oscillators (Full Can)

Specifications:

- Input voltage: +5VDC  $\pm 0.5$ VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 133006, web
- Frequency stability  $\pm 100$ ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.

Quantity SAVE



Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

## JAMECO ValuePro TTL Oscillators (Full Can)

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
				1	10	100
325411	3.579545	15mA	10ns	\$1.19	\$1.08	\$ .81
325315	3.6864	15mA	10ns	1.50	1.38	1.30
354889	4.0	15mA	10ns	1.35	1.22	1.17
325323	5.0	15mA	10ns	1.19	1.08	.81
325260	6.0	15mA	10ns	1.19	1.08	.81
325278	6.144	15mA	10ns	1.43	1.30	.98
325358	7.3728	15mA	10ns	1.55	1.37	.87
354897	8.0	30mA	10ns	1.35	1.22	1.17
325331	9.216	30mA	10ns	1.19	1.08	.81
325366	9.8304	30mA	10ns	1.19	1.08	.81
354870	11.0592	30mA	10ns	1.25	1.12	.89
354837	14.31818	30mA	—	1.25	1.12	1.02
354845	16.0	30mA	10ns	1.22	1.10	.87
325286	16.257	30mA	10ns	1.19	1.08	.81
325340	18.0	30mA	10ns	1.19	1.08	.81
325382	18.432	30mA	10ns	1.19	1.08	.81
325446	19.6608	30mA	10ns	1.19	1.08	.81
354917	20.0	30mA	10ns	1.35	1.22	1.17
325391	24.0	70mA	10ns	1.22	1.12	1.02
325454	25.0	70mA	5ns	1.22	1.12	1.02
325403	28.322	70mA	5ns	1.19	1.08	.81
325438	30.0	70mA	5ns	1.19	1.08	.81
325294	35.0	70mA	5ns	1.19	1.08	.81
354861	40.0	70mA	5ns	1.29	1.16	.93

### Other Manufacturers

27861	1.0	7mA	15ns	\$2.49	\$2.20	\$1.43
325307	1.2288	15mA	10ns	1.07	.97	.73
27879	1.8432	7mA	15ns	2.39	2.15	1.95
27924	2.0	7mA	15ns	1.22	1.09	.82
27967	4.0	7mA	10ns	1.99	1.79	1.59
27991	8.0	15mA	15ns	2.39	2.15	1.91
27887	10.0	15mA	10ns	1.99	1.79	1.59
27895	12.0	15mA	10ns	1.28	1.20	1.11
27908	16.0	15mA	10ns	1.25	1.12	.84
27932	20.0	17mA	10ns	1.79	1.61	1.21
76822	33.0	18mA	6ns	1.99	1.69	1.27
153226	40.0	18mA	6ns	1.26	1.16	1.05
76831	50.0	25mA	6ns	1.05	.89	.76
325420	66.666	70mA	5ns	1.22	1.12	.99
76857	100.0	25mA	3ns	2.49	2.25	1.95

Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

**Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion**

Each kit includes a 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319610), 30 adhesive labels for drawers to identify parts in kit, and all the electronic components listed in each kit.



81875 (Capacitor Kit)

**20-drawer component cabinet with every kit!**

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

**Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.**

**Need a refill? Just call 1-800-831-4242**



81832 (Resistor Kit)

## Radial Electrolytic Capacitor Kit

**Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors**

10 each	10 each	20 each	20 each	20 each
100µF @ 50V	1000µF @ 16V	1µF @ 50V	3.3µF @ 50V	22µF @ 50V
220µF @ 25V	2200µF @ 25V	1µF @ 100V	4.7µF @ 50V	47µF @ 50V
470µF @ 25V	3300µF @ 25V	2.2µF @ 50V	10µF @ 50V	100µF @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867	240 pcs. Radial Capacitor kit	5.3	\$36.25	\$34.35
130331	Refill for 81867 (240 pcs.)	0.5	29.99	27.95

**SAVE \$4**

## Axial Electrolytic Capacitor Kit

**Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors**

10 each	10 each	10 each	20 each	20 each
47µF @ 50V	220µF @ 50V	1000µF @ 25V	1µF @ 50V	10µF @ 50V
100µF @ 50V	470µF @ 50V	2200µF @ 16V	4.7µF @ 50V	2.2µF @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875	140 pcs. Axial Capacitor kit	5.3	\$45.54	\$40.98

**SAVE \$10**

## Mylar Capacitor Kit

**Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors**

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF
Part No.	Description	Wt. (lbs.)	1	10
81883	280 pcs. Mylar Capacitor kit	5.1	\$46.89	\$44.45
130358	Refill for 81883 (280 pcs.)	0.3	33.95	30.95

**SAVE \$12**

## Dipped Tantalum Capacitor Kit

**Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors**

10 each	10 each	10 each	10 each	10 each
.1µF @ 35V	1µF @ 25V	3.3µF @ 35V	10µF @ 16V	22µF @ 16V
.22µF @ 35V	1µF @ 35V	4.7µF @ 35V	10µF @ 35V	33µF @ 25V
.47µF @ 35V	2.2µF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841	150 pcs. Tantalum Capacitor kit	4.8	\$87.95	\$79.95
130260	Refill for 81841 (150 pcs.)	0.3	71.94	64.74

**SAVE \$25**

## Ceramic Disc Capacitor Kit

**Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors**

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022µF	.01µF
22pF	100pF	.001µF	.047µF	.1µF
Part No.	Description	Wt. (lbs.)	1	10
81859	520 pcs. Ceramic Capacitor kit	5.0	\$38.45	\$34.62
130232	Refill for 81859 (520 pcs.)	0.3	23.45	20.95

**SAVE \$14**

## Monolithic Ceramic Capacitor Kit

**Includes 280 pcs. (10 values) 50V ±20% Monolithic Ceramic Capacitors**

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF
Part No.	Description	Wt. (lbs.)	1	10
171475	280 pcs. Monolithic Capacitor kit	5.0	\$31.15	\$29.25
171483	Refill for 171475 (280 pcs.)	0.3	28.89	27.43

**SAVE \$6**

## 1/8-Watt Carbon Film Resistor Kit

**Includes 540 pcs. (30 values) 1/8-watt 5% Resistors**

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		
Part No.	Description			Wt. (lbs.)	1	10	
108329	540 pcs. 1/8-watt Resistor kit			4.9 .....	\$25.45	\$22.95	
108303	Refill for 108329 (540 pcs.)			0.2 .....	12.95	11.49	

## 1/4-Watt Carbon Film Resistor Kit

**Includes 540 pcs. (30 values) 1/4-watt 5% Resistors**

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		
Part No.	Description			Wt. (lbs.)		1	10
81832	540 pcs. 1/4-watt Resistor kit			4.9 .....	\$31.59		\$28.19
103166	Refill for 81832 (540 pcs.)			0.2 .....	12.95		11.49

## 1/2-Watt Carbon Film Resistor Kit

**Includes 540 pcs. (30 values) 1/2-watt 5% Resistors**

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		
Part No.	Description				Wt. (lbs.)	1	10
107879	540 pcs. 1/2-watt Resistor kit				5.1 .....	\$29.95	\$26.95
107853	Refill for 107879 (540 pcs.)				0.4 .....	15.69	14.17

## 1/2-Watt Single Turn Cermet Pot Kit

**See page 100 (63P Series) for photos and specs.**

**Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer**

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P2kΩ	63P10kΩ	63P50kΩ	63P500kΩ
63P1kΩ	63P5kΩ	63P20kΩ	63P100kΩ	63P1MΩ
Part No.	Description	Wt. (lbs.)	1	10
85032	100 pcs. single turn Pot kit	4.9	\$77.95	\$73.45

**SAVE \$17**

## 3/4-Watt 15 Turn Cermet Pot Kit

**See page 100 (43P Series) for photos and specs.**

**Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer**

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P2kΩ	43P10kΩ	43P50kΩ	43P500kΩ
43P1kΩ	43P5kΩ	43P20kΩ	43P100kΩ	43P1MΩ
Part No.	Description	Wt. (lbs.)	1	10
85041	100 pcs. 15 turn Pot kit	4.9	\$89.95	\$79.95

**SAVE \$25**

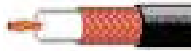
**99% of Our Catalog Products Are in Stock**



Compare Belden coaxial cables with those from the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit [www.Jameco.com/Belden](http://www.Jameco.com/Belden).

**50Ω Transmission and Computer Cable RG8/X & RG8/U Type****16 AWG stranded (19x29) .058" bare copper RG8/X type**

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .042" • Color: black



Part No.	Product No.	Description	1	5	10
734255	9258-100-10 R	100' reel	\$59.99	\$54.99	\$49.99
734257	9258-500-10 R	500' reel	346.55	314.47	298.73
734256	9258-1000-10 R	1000' reel	721.38	671.01	645.84
734259	9258-U500-10 R	500' unreel box	428.46	388.82	369.35
734258	9258-U1000-10 R	1000' unreel box	743.22	691.35	665.43

**13 AWG stranded (7 x 21) .085" bare copper RG8/U type**

- 97% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 52Ω
- Nominal outer diameter: .405" • Color: black



Part No.	Product No.	Description	1	5	10
732849	8237-100-10 R	100' reel	\$168.29	\$158.59	\$153.58
732857	8237-500-10 R	500' reel	639.55	600.14	581.14
732865	8237-1000-10 R	1000' reel	1,135.85	1,041.29	961.12

**11 AWG stranded (7 x 19) .108" bare copper RG8/U type**

- Nominal outer diameter: .285" • Color: black
- Foam polyethylene insulation & black PVC jacket • 97% bare copper braid shield
- Nominal capacitance: 85.3pF/m • Nominal impedance: 50Ω



Part No.	Product No.	Description	1	5	10
732751	8214-100-10 R	100' reel	\$214.26	\$190.05	\$178.53
732769	8214-500-10 R	500' reel	936.78	851.60	780.06
732777	8214-1000-10 R	1000' reel	1,564.26	1,443.81	1,117.27

**50Ω Transmission and Computer Cable RG58A/U Type****20 AWG solid .032" bare copper**

- Nominal outer diameter: .193" • Color: black
- Polyethylene insulation and black PVC jacket
- 95% tinned copper braid shield
- Nominal capacitance: 93.5pF/m • Nominal impedance: 51.5Ω



Part No.	Product No.	Description	1	5	10
732873	8240-100-10 R	100' reel	\$50.58	\$45.86	\$41.68
732882	8240-500-10 R	500' reel	200.10	181.80	173.98
732900	8240-1000-10 R	1000' reel	369.89	353.39	338.91
734176	8240-U500-10 R	500' unreel box	202.99	184.17	144.98
734175	8240-U1000-10 R	1000' unreel box	333.29	302.42	287.33

**20 AWG stranded (19 x 33) .035" tinned copper**

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .192" • Color: black



Part No.	Product No.	Description	1	5	10
732937	8259-100-10 R	100' reel	\$50.65	\$45.93	\$41.73
732945	8259-500-10 R	500' reel	209.94	197.94	191.94
732953	8259-1000-10 R	1000' reel	386.55	369.34	354.20

**20 AWG stranded (19 x 32) .037" tinned copper**

- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" • Color: black



Part No.	Product No.	Description	1	5	10
732814	8219-100-10 R	100' reel	\$47.99	\$44.99	\$40.49
732822	8219-500-10 R	500' reel	248.15	235.05	223.29

**Belden Coaxial Cable****50Ω Transmission and Computer Cable RG174/U Type****26 AWG stranded (7 x 34) .019" bare copper-covered steel**

- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m
- Nominal impedance: 50Ω
- Nominal outer diameter: .110" • Color: black



Part No.	Product No.	Description	1	5	10
732785	8216-100-10 R	100' reel	\$49.38	\$47.07	\$44.82
732793	8216-500-10 R	500' reel	167.99	159.11	155.39
732806	8216-1000-10 R	1000' reel	278.85	263.29	258.97

**75Ω Broadband Coax CATV Cable RG6/U Type****18 AWG solid .040" bare copper-covered steel**

- Duobond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270" • Color: black



Part No.	Product No.	Description	1	5	10
733270	9116-100-10 R	100' reel	\$20.99	\$18.99	\$16.99
733278	9116-500-10 R	500' reel	76.69	67.12	63.77
733286	9116-1000-10 R	1000' reel	142.15	135.04	128.29

**18 AWG solid .040" bare copper-covered steel**

- Duobond® IV quad shield
- Nominal outer diameter: .298"
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω • Color: black



Part No.	Product No.	Description	1	5	10
732734	1189A-100-10 R	100' reel	\$40.85	\$36.73	\$33.05
733403	1189A-500-10 R	500' reel	88.19	81.55	77.45
732742	1189A-1000-10 R	1000' reel	183.45	174.27	165.55
734053	1189A-U500-10 R	500' unreel box	100.99	81.61	77.53

**Precision Video Cable for Analog and Digital RG6 Type****18 AWG solid .040" bare copper**

- Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- DuoFoil® +95% tinned copper braid shield • Nominal outer diameter: .275"



Part No.	Product No.	Description	1	5	10
734100	1694A-100-10 R	100' reel (black)	\$67.99	\$59.99	\$54.99
734156	1694A-500-10 R	500' reel (black)	267.49	254.78	242.65
734155	1694A-1000-10 R	1000' reel (black)	535.05	509.56	485.29

**Direct Broadcast Satellite RG6 Type Cable****18 AWG solid .040" bare copper**

- DuoBond® II +60% aluminum braid • Color: black
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m • Nominal impedance: 75Ω



Part No.	Product No.	Description	1	5	10
734157	1829AC-100-10 R	100' reel	\$15.99	\$14.99	\$14.49
734178	1829AC-500-10 R	500' reel	69.95	64.99	59.99
734158	1829AC-1000-10 R	1000' reel	123.25	110.88	105.34

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## Belden Coaxial Cable (Continued)

## 75Ω Standard Analog Video Cable RG59/U Type

23 AWG solid .023" bare copper

- 95% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal outer diameter: .242"
- Nominal capacitance: 67.3pF/m
- Nominal impedance: 75Ω
- Color: black

Part No.	Product No.	Description	1	5	10
732902	8241-100-10 R	100' reel	\$64.50	\$60.56	\$55.83
732911	8241-500-10 R	500' reel	169.86	159.38	158.20

22 AWG stranded (7 x 30) .030" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .241"
- Color: black

Part No.	Product No.	Description	1	5	10
732654	9259-100-10 R	100' reel	\$89.75	\$85.50	\$81.44
732662	9259-500-10 R	500' reel	235.26	224.08	213.41
732671	9259-1000-10 R	1000' reel	459.83	443.32	426.81
734071	9259-U500-10 R	500' unreel box	236.22	224.64	213.41
734070	9259-U1000-10 R	1000' unreel box	439.99	407.89	399.99

## Broadband Coax (Headend/Video Cables)

20 AWG solid .031" bare copper

- Nominal capacitance 68.9pF/m
- Color: black
- Nominal outer diameter: .305"
- Nominal impedance: 75Ω
- 98% tinned copper double braid shield
- Polyethylene insulation and jacket

Part No.	Product No.	Description	1	5	10
732962	8281-100-10 R	100' reel	\$99.99	\$89.99	\$79.99
732980	8281-500-10 R	500' reel	552.25	501.82	484.72
732988	8281-1000-10 R	1000' reel	1,087.67	948.18	900.77



Belden paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit [www.jameco.com/Belden](http://www.jameco.com/Belden).

- Chrome PVC jacket
- Tinned copper
- Twisted pairs
- Tinned copper drain wire
- Overall 100% BELDFOIL® shield (for shielded cables)

## High-Temperature Control, Instrumentation &amp; Computer Cable

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Semi-rigid PVC insulation
- Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
732710	9501-100-60 R	1	100' reel	\$27.85	\$25.31	\$22.95
732718	9501-500-60 R	1	500' reel	92.05	87.14	82.31
732726	9501-1000-60 R	1	1000' reel	200.99	192.05	182.45
734074	9501-U500-60 R	1	500' unreel box	107.55	101.85	96.19
734073	9501-U1000-60 R	1	1000' unreel box	244.79	244.78	231.09
732452	9502-100-60 R	2	100' reel	32.87	29.91	27.17
732470	9502-500-60 R	2	500' reel	165.89	135.39	124.72
732478	9502-1000-60 R	2	1000' reel	315.89	301.82	286.73
734076	9502-U500-60 R	2	500' unreel box	165.89	135.39	126.99
732486	9503-100-60 R	3	100' reel	42.89	40.74	38.70
732494	9503-500-60 R	3	500' reel	222.39	210.63	200.10
732507	9503-1000-60 R	3	1000' reel	411.35	393.08	372.43
734078	9503-U500-60 R	3	500' unreel box	226.39	214.44	202.58
734077	9503-U1000-60 R	3	1000' unreel box	408.35	385.65	366.38
732515	9504-100-60 R	4	100' reel	55.39	51.94	49.34
732523	9504-500-60 R	4	500' reel	256.79	249.59	238.79
732532	9504-1000-60 R	4	1000' reel	498.18	474.38	462.05
732550	9505-100-60 R	5	100' reel	61.95	58.15	55.23
732558	9505-500-60 R	5	500' reel	294.90	280.83	267.46
732566	9505-1000-60 R	5	1000' reel	444.66	407.67	309.87
734079	9505-U500-60 R	5	500' unreel box	311.25	294.84	278.43
734080	9505-U1000-60 R	5	1000' unreel box	589.69	556.87	529.03

## RG59 Type Security Coaxial Cable

20 AWG solid bare copper conductor

- 95% bare copper braid shield
- Nominal impedance: 75Ω
- Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications
- Color: black

Part No.	Product No.	Description	1	5	10
734159	543945-100-10 R	100' reel	\$21.99	\$19.99	\$18.99
734161	543945-500-10 R	500' reel	89.09	84.85	80.81
734160	543945-1000-10 R	1000' reel	142.29	135.52	129.07

## Standard Analog Video Cable 75Ω Miniature Coax

27 AWG stranded (7x35) .017" bare copper-covered steel

- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m
- Color: black
- Nominal impedance: 75Ω
- Nominal outer diameter: .100"

Part No.	Product No.	Description	1	5	10
734174	8218-U500-10 R	500' unreel box	\$256.99	\$239.99	\$233.65
734173	8218-U1000-10 R	1000' unreel box	397.39	386.99	371.15

20 AWG solid .032" solid bare copper

- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .234"
- Color: black

Part No.	Product No.	Description	1	5	10
734087	1505A-100-10 R	100' reel	\$49.99	\$47.49	\$44.99
734089	1505A-500-10 R	500' reel	214.35	192.80	183.62
734088	1505A-1000-10 R	1000' reel	435.29	382.27	364.07

## Belden Paired Cable

## Low Capacitance Computer Cable

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m
- Color: chrome
- Nominal impedance: 100Ω

Part No.	Product No.	No. of Pairs	Description	1	5	10
734179	1419A-100-60 R	2	100' reel	\$27.99	\$24.99	\$23.75
734086	1419A-500-60 R	2	500' reel	149.99	141.85	137.39
734085	1419A-1000-60 R	2	1000' reel	264.55	242.43	223.76

## Audio, Control, and Instrumentation Cable Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation
- Paper wrap
- Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: 0.138"

Part No.	Product No.	No. of Pairs	Description	1	5	10
733112	8451-100-10 R	1	100' reel (black)	\$23.99	\$22.31	\$21.76
733139	8451-1000-10 R	1	1000' reel (black)	197.09	177.39	159.65
734063	8451-U500-10 R	1	500' unreel box (black)	118.75	107.91	93.75
734062	8451-U1000-10 R	1	1000' unreel box (blk)	243.42	223.14	205.95

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 111pF/m
- Nominal outer diameter: 0.135"
- PVC jacket
- Color: gray

Part No.	Product No.	No. of Pairs	Description	1	5	10
732689	9451-100-08 R	1	100' reel	\$29.99	\$26.99	\$23.99
732697	9451-500-08 R	1	500' reel	111.42	103.72	98.78
733412	9451-T1000-08 R	1	1000' reel	163.09	155.34	147.94



## Belden Paired Cable (Continued)

### Audio, Control, and Instrumentation Cable Non-Plenum (Cont.)

22 AWG stranded (7 x 30) shielded with 22 AWG strand

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.175" • Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
734191	8761-500-60	1	500' reel	\$149.35	\$140.13	\$130.49
734190	8761-1000-60	1	1000' reel	285.35	261.58	241.45
734193	8761-U500-60	1	500' unreel box	159.95	145.09	131.83
734192	8761-U1000-60	1	1000' unreel box	271.49	232.42	221.41

22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: 0.168"
- Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
734180	8723-100-60	2	100' reel	\$32.69	\$31.15	\$29.67
734182	8723-500-60	2	500' reel	173.99	140.99	130.69
734181	8723-1000-60	2	1000' reel	259.69	254.59	249.60
734184	8723-U500-60	2	500' unreel box	132.65	128.66	124.80
734183	8723-U1000-60	2	1000' unreel box	324.59	306.79	289.79

20 AWG stranded (7 x 28) unshielded

- Chrome PVC jacket • Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	2	5
734172	8205-U500-60	1	500' unreel box	\$97.79	\$85.70	\$81.41
734171	8205-U1000-60	1	1000' unreel box	223.35	204.74	188.99

20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire

- Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- Nominal outer diameter: 0.300" • Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
734260	9402-100-60	2	100' reel	\$77.99	\$74.99	\$69.99
734262	9402-U500-60	2	500' unreel box	491.15	458.39	425.64
734261	9402-1000-60	2	1000' reel	1,133.82	1,038.54	958.59

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Tinned copper, twisted pair • Color: chrome
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m • Nominal outer diameter: 0.222"

Part No.	Product No.	No. of Pairs	Description	1	5	10
734185	8760-100-60	1	100' reel	\$34.99	\$32.49	\$29.99
734187	8760-500-60	1	500' reel	158.29	143.63	136.44
734186	8760-1000-60	1	1000' reel	341.49	326.29	312.89
734189	8760-U500-60	1	500' unreel box	150.39	143.26	136.44
734188	8760-U1000-60	1	1000' unreel box	300.85	286.52	272.88

### Composite Data, Audio, Video, Security and Control Cable

Two RG6 18 AWG solid bare copper conductors and two 4-pair UTP 24 AWG solid bare copper conductors

- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200"
- Banana Peel™ jacketless cables • Color: black

Part No.	Product No.	Description	1	5	10
734164	7913S-500	500' reel	\$355.39	\$338.45	\$322.33
734163	7913S-1000	1000' reel	700.85	682.06	663.31

### Paired Line Level Analog Audio Cable

20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.204"
- Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
734195	8762-100-60	1	100' reel	\$35.25	\$33.77	\$32.29
734197	8762-500-60	1	500' reel	179.70	171.14	162.99
734196	8762-1000-60	1	1000' reel	343.35	328.00	314.59
734199	8762-U500-60	1	500' unreel box	179.70	171.14	162.99
734198	8762-U1000-60	1	1000' unreel box	335.45	316.83	298.19

16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.313" • Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733147	8719-100-60	1	100' reel	\$59.99	\$54.99	\$49.99
733155	8719-500-60	1	500' reel	267.09	242.34	230.32
733163	8719-1000-60	1	1000' reel	488.25	474.44	460.64
734065	8719-U500-60	1	500' unreel box	304.74	290.21	276.39
734064	8719-U1000-60	1	1000' unreel box	660.35	611.42	569.25

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.355"
- Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733172	8720-100-60	1	100' reel	\$64.99	\$59.99	\$54.99
733190	8720-500-60	1	500' reel	358.62	346.26	329.78
734066	8720-U500-60	1	500' unreel box	500.39	467.74	435.11

### Paired DataTwist® Category 5e UTP Cable

TIA/EIA – 568-B.2, unbonded-pair cable

- 4 pair unshielded • 24 AWG solid
- Maximum DCR per 100m – 9.38Ω
- Input impedance: 100Ω

1585A series:

- Plenum, FEP Teflon® insulation, Flamarrest® jacket • Nominal outer dia.: 0.200"

1583A series:

- Non-plenum, polyolefin insulation, PVC jacket • Nominal outer dia.: 0.214"

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Color	Description	1	5	10
734093	1585A-100-877	Natural	100' reel	\$29.99	\$28.49	\$26.99
734095	1585A-500-877	Natural	500' reel	149.99	134.99	129.99
734094	1585A-1000-877	Natural	1000' reel	214.45	204.23	194.50
734096	1585A-U1000-877	Natural	1000' unreel box	214.45	204.23	194.50
734097	1585A-U100-D15	Blue	100' unreel box	29.99	28.49	26.99
734099	1585A-U500-D15	Blue	500' unreel box	139.99	129.99	119.99
734098	1585A-U1000-D15	Blue	1000' unreel box	279.49	254.05	248.95
734090	1583A-100-06	Blue	100' reel	15.99	14.99	13.99
734177	1583A-500-06	Blue	500' reel	71.19	64.05	57.65
734091	1583A-1000-06	Blue	1000' reel	142.35	128.11	115.30
734092	1583A-U1000-06	Blue	1000' unreel box	142.35	128.11	115.30
447224	1583A-U1000-10	Black	1000' unreel box	155.15	139.64	125.68

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# Multi-Conductor, Speaker Cable & Hook-Up Wire

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.








## Belden Multi-Conductor Cable

### Multi-Conductor Audio, Control & Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.199" • Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733235	8771-100-60 	3	100' reel .....	\$34.99	\$29.99	\$27.99
733243	8771-500-60 	3	500' reel .....	156.06	153.00	149.94
733252	8771-1000-60 	3	1000' reel .....	307.49	276.72	249.05
734068	8771-U500-60 	3	500' unreel box .....	149.99	142.31	134.39
734067	8771-U1000-60 	3	1000' unreel box ..	311.65	285.55	276.59

22 AWG stranded (7 x 30) unshielded

- PVC insulation • Color: chrome



8442 Series





















8443 Series



8444 Series





8445 Series

Part No.	Product No.	Conductors	Description	1	5	10
732996	8442-100-60 	2	100' reel .....	\$22.39	\$20.29	\$18.43
733008	8442-500-60 	2	500' reel .....	81.49	73.02	64.54
733016	8442-1000-60 	2	1000' reel .....	161.59	154.38	146.92
734055	8442-U500-60 	2	500' unreel box .....	84.47	75.99	69.99
734054	8442-U1000-60 	2	1000' unreel box ..	170.75	144.21	129.07
733024	8443-100-60 	3	100' reel .....	28.74	27.30	25.95
733032	8443-500-60 	3	500' reel .....	120.30	114.56	109.11
734057	8443-U500-60 	3	500' unreel box .....	120.30	106.58	98.38
733059	8444-100-60 	4	100' reel .....	32.65	30.58	27.65
733067	8444-500-60 	4	500' reel .....	153.83	136.54	126.03
733075	8444-1000-60 	4	1000' reel .....	273.09	252.80	232.52
734059	8444-U500-60 	4	500' unreel box .....	156.05	126.78	117.05
734058	8444-U1000-60 	4	1000' unreel box ..	279.18	241.57	211.00
733083	8445-100-60 	5	100' reel .....	40.39	37.92	36.70
733092	8445-500-60 	5	500' reel .....	200.25	187.90	145.46
733104	8445-1000-60 	5	1000' reel .....	367.29	351.35	333.79
734061	8445-U500-60 	5	500' unreel box .....	190.49	173.14	158.74
734060	8445-U1000-60 	5	1000' unreel box ..	397.49	353.75	328.19

20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.218" • Color: chrome








Part No.	Product No.	Conductors	Description	1	5	10
734254	8772-U500-60 	3	500' unreel box ..	\$169.85	\$161.77	\$154.07
734253	8772-U1000-60 	3	1000' unreel box ..	306.45	280.92	259.29

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.246" • Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733201	8770-100-60 	3	100' reel .....	\$59.99	\$54.99	\$49.99
733219	8770-500-60 	3	500' reel .....	252.11	241.88	230.36
733227	8770-1000-60 	3	1000' reel .....	507.90	483.74	460.70
734084	8770-U500-60 	3	500' unreel box .....	264.15	247.89	239.99
734083	8770-U1000-60 	3	1000' unreel box ..	479.99	458.89	439.99

## Free Technical Support

Our knowledgeable Tech Support department  
is ready to answer your questions.  
Just call us! 1-800-831-4242



## Belden Speaker Cable





These speaker cables are used to connect receivers or power amplifiers to speakers & are also used for the internal wiring of the speakers. Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

### Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables




- 2-conductor stranded • Clear PVC jacket
- Parallel (1) tinned (1) bare • PVC insulation



18 AWG stranded (16 x 30)

Part No.	Product No.	Description	1	5	10
732574	9708-100-368 	100' reel .....	\$30.90	\$29.44	\$28.04
732591	9708-1000-368 	1000' reel .....	338.59	323.73	307.55
734154	9708-U500-368 	500' unreel box .....	181.95	172.33	162.77
734081	9708-U1000-368 	1000' unreel box .....	335.69	320.75	307.59

14 AWG stranded (19 x 27)

Part No.	Product No.	Description	1	5	10
732603	9717-100-368 	100' reel .....	\$78.59	\$66.11	\$59.34
733430	9717-500-368 	500' reel .....	299.99	289.99	279.99
732612	9717-1000-368 	1000' reel .....	641.45	606.59	545.05

12 AWG stranded (65 x 30)

Part No.	Product No.	Description	1	5	10
732630	9718-100-368 	100' reel .....	\$151.62	\$127.36	\$120.99
732646	9718-1000-368 	1000' reel .....	1,598.85	1,518.95	1,442.95



## Belden Hook-Up Wire

### UL AWM Style 1007

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.








- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment • Tinned copper
- PVC insulated • Increments of 100' or 1000' reels



Use the color code chart below to replace the "xx" when ordering

02 – Brown	03 – Red	04 – Orange	05 – Yellow	06 – Green
08 – Violet	09 – Gray	10 – White	11 – Black	14 – Dark blue

e.g. 734602 – 7346 is the Jameco designation for 28 AWG stranded wire and 02 is for color brown

Part No.	Product No.	Description	1	5	10
7346xx	9928-100-xx 	28 AWG (7 x 36) stranded .....	\$19.99	\$16.34	\$14.99
7345xx	9926-100-xx 	26 AWG (7 x 34) stranded .....	21.35	17.45	16.15
7344xx	9923-100-xx 	24 AWG (7 x 32) stranded .....	22.45	22.28	21.10
7343xx	9921-100-xx 	22 AWG (7 x 30) stranded .....	26.19	25.37	24.55
7342xx	9919-100-xx 	20 AWG (7 x 28) stranded .....	32.19	31.20	30.21
7341xx	9918-100-xx 	18 AWG (16 x 30) stranded .....	35.49	28.99	26.49
7340xx	9916-100-xx 	16 AWG (26 x 30) stranded .....	53.99	48.96	44.50







\* Not available in gray \*\* Not available in violet, gray or dark blue



## Bus Bar Hook-Up Wire

In accordance with performance requirements of Federal Specs. QQ-W343G.

- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
734169	8022-100 	24 AWG, 100' reel .....	\$16.91	\$16.25	\$15.48
734170	8022-1000 	24 AWG, 1000' reel .....	73.79	70.29	66.95
734167	8021-100 	22 AWG, 100' reel .....	13.45	10.81	9.77
734168	8021-1000 	22 AWG, 1000' reel .....	115.19	107.15	98.99
734165	8020-100 	20 AWG, 100' reel .....	14.45	12.67	11.46
734166	8020-1000 	20 AWG, 1000' reel .....	169.45	141.89	131.09

# Hook-Up, Wire-Wrap Wire & Coaxial Cable

Color Code Legend  
New Sale Lower\$ QtySave

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

## JAMECO ValuePro UL 1007 Stranded Hook-Up Wire

300 Volts

- 80°C
- PVC insulation
- Temperature range: -40°C to +80°C
- CSA: TR-64
- Sold in 100' rolls

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref.	AWG	Color	Wt. (lbs.)	1	5	10
126085	223SBK/C	22 (7x30)	Black	0.4	\$4.07	\$3.83	\$3.59
126034	223SR/C	22 (7x30)	Red	0.4	4.07	3.83	3.59
126077	223SR/C	22 (7x30)	White	0.4	3.55	3.33	3.12
310852	UL1007-22-GR-C	22 (7x30)	Green	1.0	4.65	4.35	4.08
310878	UL1007-22-YL-C	22 (7x30)	Yellow	1.0	4.65	4.35	4.08
125840	203SBK/C	20 (10x30)	Black	0.6	12.59	12.11	11.45
125794	203SR/C	20 (10x30)	Red	0.5	12.59	12.11	11.45
125831	203SW/C	20 (10x30)	White	0.5	7.14	6.84	6.47
310893	UL1007-20-GR-C	20 (10x30)	Green	1.0	6.29	6.04	5.71
310915	UL1007-20-YL-C	20 (10x30)	Yellow	1.0	7.69	7.36	6.95
310922	UL1007-20-BL-C	20 (10x30)	Blue	1.0	6.89	6.60	6.24
125787	183SBK/C	18 (16x30)	Black	0.8	7.99	6.99	6.49
125736	183SR/C	18 (16x30)	Red	0.8	9.65	9.16	8.70
125751	183SW/C	18 (16x30)	White	0.8	7.39	7.10	6.72
310932	UL1007-18-GR-C	18 (16x30)	Green	1.0	5.79	5.55	5.25
310949	UL1007-18-YL-C	18 (16x30)	Yellow	1.0	9.65	9.16	8.70
310958	UL1007-18-BL-C	18 (16x30)	Blue	1.0	10.35	9.94	9.40

## Solid Hook-Up Wire – 22 AWG

- Temp. range: -55°C to +105°C
- Passes UL VW-1 flame test
- Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 304

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36768	122BE/C	Blue	\$6.59	36776	122BE/K	Blue	\$47.99
36792	122BK-R/C	Black	6.59	36805	122BK/K	Black	47.99
36822	122G-R/C	Green	6.59	36840	122G/K	Green	47.99
36856	122R/C	Red	6.59	36864	122R/K	Red	47.99
36881	122W-R/C	White	6.59	36899	122W/K	White	47.99
36920	122Y/C	Yellow	6.59	36928	122Y/K	Yellow	47.99

## JUL UL 1430 Stranded Hook-up Wire

- Temperature rating: 105°C
- Voltage: 300V
- Average wall thickness: 0.016
- Sold in 100' rolls

Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918	18	Black	19 x 30	0.082	2.083	\$23.35	\$21.00	\$18.90
307926	18	Red	19 x 30	0.082	2.083	23.35	20.77	18.90
305015	18	Orange	7 x 26	0.082	2.083	23.94	21.54	19.38
304995	20	Yellow	19 x 32	0.071	1.803	23.35	21.00	18.90
304979	20	Blue	7 x 28	0.070	1.778	23.35	21.00	18.90
304987	20	Gray	7 x 28	0.070	1.778	23.35	21.00	18.90
307897	20	Black	7 x 28	0.070	1.778	23.94	21.54	19.38
307900	20	Red	7 x 28	0.070	1.778	23.94	21.54	19.38

## JAMECO ValuePro RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω):

- Nominal capacitance: 27pF/ft.; center resistance: 10.4Ω/1000ft. @ 77°F
- For ethernet, oscilloscopes

RG59/U (75Ω):

- Nominal capacitance: 19pF/ft.; center resistance: 16.5Ω/1000ft. @ 77°F
- For CATV & video patch cords

RG174/U (50Ω):

- Nominal capacitance: 30.8pF/ft.; center resistance: 97Ω/1000ft. @ 77°F
- For ethernet, oscilloscopes

Part No.	Cross Ref No.	Type	Description	Length	1	25	50
644754	RG58/U-100	RG58/U	20 AWG solid	100'	\$11.99	\$11.39	\$10.79
644771	10X1-041TH-100	RG58A/U	20 AWG stranded	100'	18.99	17.99	17.09
644789	10X1-041TH-1000	RG58A/U	20 AWG stranded	1000'	149.99	142.49	135.35
644797	RG59/U-100	RG59/U	22 AWG solid	100'	12.99	12.35	11.75
644800	RG59/U-1000	RG59/U	22 AWG solid	1000'	130.89	124.34	118.10
644818	RG174/U-100	RG174/U	26 AWG stranded	100'	18.99	17.99	17.09
644826	RG174/U-1000	RG174/U	26 AWG stranded	1000'	202.79	192.66	182.99

## JAMECO ValuePro 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V

Part No.	Cross Ref. No.	Length	Wt. (lbs.)	1	10	25
100280	224BK/C	100'	0.8	\$5.59	\$4.99	\$4.49
100299	224BK/K	1000'	7.8	49.99	44.89	39.59

## JAMECO ValuePro Twisted Paired Cable – 24 AWG

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Weight: 100' (0.5 lbs.); 1000' (4.7 lbs.)

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911	224GW/C	Green/white	\$5.99	105807	224GW/K	Green/white	\$107.65
173164	224BW/C	Black/white	5.49	173156	224RW/K	Red/white	65.95
				173172	224BW/K	Black/white	53.94

## Kynar™ Wire-Wrap Wire – 30 AWG

- Assorted color coded insulation
- Color coded Kynar™ (Polyvinylidene Fluoride) insulation
- Silver plated copper (solid conductor)
- Temperature: -40°C to +125°C
- Passes UL VW-1 flame test
- Wire wrap tools, pg 286
- Used for prototyping
- UL 1423
- See pg 162 for sockets

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22542	Blue	0.1	\$5.79	22551	Blue	0.6	\$31.19
22577	Black	0.1	5.89	22585	Black	0.6	31.19
22631	Red	0.1	5.99	22649	Red	0.6	31.19
22665	White	0.1	5.99	22673	White	0.6	34.79
22606	Green	0.1	5.99	22614	Green	0.6	34.79
22700	Yellow	0.1	5.79	22702	Yellow	0.6	31.49

## More Wire and Cable on Web



Thousands of additional products available at [www.Jameco.com](http://www.Jameco.com).

## For Wire Cutters, Strippers & Wire-Wrap/Unwrap Tools



See pages 284 – 286



RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Due to extraordinary copper market price fluctuations,  
cable and wire prices are subject to change.

Call for OEM pricing

JAMECO ValuePro

## Category 5e/5 Network Cable

- 4 twisted pairs
- Insulation: polyethylene • UTP
- Nom. OD.: 0.189"
- Nom. impedance: 100

Solid: uses modular plug P/N 119343, pg 127

Stranded: uses modular plug P/N 79281, pg 127

- Prepackaged and priced in increments of 25', 100' or 1000'

## 24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644543	10X5-701TH-25	Solid	Gray	25	\$4.99	\$4.75
644551	10X5-701TH-100	Solid	Gray	100	<del>\$10.99</del> 10.75	10.38
644560	10X5-701TH-1000	Solid	Gray	1000	99.99	94.99
645714	10X5-704TH-25	Solid	Blue	25	4.99	4.75
645722	10X5-704TH-100	Solid	Blue	100	16.99	16.15
645731	10X5-704TH-1000	Solid	Blue	1000	99.99	94.99
644578	10X5-801TH-25	Stranded	Gray	25	6.55	5.02
644586	10X5-801TH-100	Stranded	Gray	100	21.59	19.43
644594	10X5-801TH-1000	Stranded	Gray	1000	159.99	143.99
644607	10X5-804TH-25	Stranded	Blue	25	6.55	5.02
644615	10X5-804TH-100	Stranded	Blue	100	21.59	19.43
644623	10X5-804TH-1000	Stranded	Blue	1000	159.99	151.99
645749	10X5-805TH-25	Stranded	Red	25	5.99	5.69
645757	10X5-805TH-100	Stranded	Red	100	17.99	16.19
645765	10X5-805TH-1000	Stranded	Red	1000	159.99	143.99
645773	10X5-802TH-25	Stranded	Black	25	5.99	5.69
645781	10X5-802TH-100	Stranded	black	100	17.99	16.19
645790	10X5-802TH-1000	Stranded	Black	1000	159.99	143.99
645802	10X5-806TH-25	Stranded	Yellow	25	5.99	5.69
645811	10X5-806TH-100	Stranded	Yellow	100	17.99	16.19
645829	10X5-806TH-1000	Stranded	Yellow	1000	159.99	143.99

## 24 AWG UTP Category 5 – 100MHz

- 7/32 AWG

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644631	GTP501-4P-GR-25	Stranded	Gray	25	\$5.95	\$5.65
644640	GTP501-4P-GR-100	Stranded	Gray	100	22.59	21.52
644658	GTP501-4P-GR-1000	Stranded	Gray	1000	164.49	156.25

JAMECO ValuePro

## Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V • Color: gray
- 24 AWG (7 x 32 AWG) • Drain wire
- Shielded 100% w/ aluminum mylar
- Prepackaged and priced in increments listed below

Part No.	Cross Ref. No.	Conductors	Diameter	Length (ft.)	1	25
644383	SC4-25R	4	0.20"	25	\$5.59	\$5.29
644391	SC4-100R	4	0.20"	100	20.05	19.05
644404	SC4-1000R	4	0.20"	1000	167.99	159.59
644412	SC9-25R	9	0.23"	25	13.15	12.50
644421	SC9-100R	9	0.23"	100	39.55	37.57
644439	SC9-1000R	9	0.23"	1000	269.99	256.49
644447	SC15-25R	15	0.28"	25	17.49	16.78
644455	SC15-100R	15	0.28"	100	58.75	55.86
644463	SC15-1000R	15	0.28"	1000	515.99	490.19
644471	SC25-25R	25	0.37"	25	22.25	21.15
644480	SC25-100R	25	0.37"	100	85.19	80.94
644498	SC25-500R	25	0.37"	500	589.99	560.49

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

New Sale Lower\$ QtySave

JAMECO ValuePro

## Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable
- PVC jacket
- 7 x 43 stranded
- Gray

Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	25	50
644666	300-840SL-100	4	100	\$3.49	\$3.29	\$3.09
644674	300-840SL-1000	4	1000	29.99	28.49	27.05
644691	300-860SL-100	6	100	7.49	6.75	6.09
644703	300-860SL-1000	6	1000	49.99	47.49	45.09
644720	300-880SL-100	8	100	9.99	9.49	8.99
644738	300-880SL-1000	8	1000	61.99	58.89	55.95

BELDEN

## Flat Ribbon Cable

- Designed for general purpose interconnect applications
- Insulation: PVC – polyvinyl chloride • 0.050" pitch
- Insulation resistance: >10,000MΩ • Voltage rating: 300Vrms
- Dielectric withstanding voltage: 2,000Vrms
- 28AWG stranded (7 x 36) tinned copper
- Current rating: 1A/conductor
- Nom. conductor DC resistance: 68.2Ω/1000ft.
- Length: 100 ft. prepackaged

## Gray

Part No.	Product No.	Conductors	1	2	5
689311	9L28010-H100-08 R♣	10	\$26.99	\$26.49	\$24.12
689320	9L28015-H100-08 R♣	15	42.19	37.88	34.46
689338	9L28016-H100-08 R♣	16	46.45	42.41	38.58
689346	9L28020-H100-08 R♣	20	58.25	53.32	48.51
689354	9L28024-H100-08 R♣	24	72.85	65.46	59.55
689362	9L28025-H100-08 R♣	25	81.89	74.36	67.64
689371	9L28026-H100-08 R♣	26	76.99	69.92	63.60
689389	9L28034-H100-08 R♣	34	101.69	92.38	84.04
689397	9L28036-H100-08 R♣	36	112.25	100.87	91.75
689400	9L24037-H100-08 R♣	37	107.45	102.43	93.17
689418	9L24040-H100-08 R♣	40	109.59	104.49	95.05
689426	9L24050-H100-08 R♣	50	142.49	138.05	133.70
689434	9L24060-H100-08 R♣	60	173.49	155.88	141.79
689442	9L24064-H100-08 R♣	64	184.75	165.99	150.97

## Rainbow (Multi-Color)

Part No.	Product No.	Conductors	1	2	5
689451	9R28010-000-100 R♣	10	\$72.89	\$65.13	\$59.58
689469	9R28014-000-100 R♣	14	103.19	92.17	84.32
689477	9R28016-000-100 R♣	16	111.95	106.16	97.12
689485	9R28020-000-100 R♣	20	140.95	137.64	121.58
689493	9R28024-000-100 R♣	24	175.49	156.79	143.42
689506	9R28025-000-100 R♣	25	184.19	164.57	150.53
689514	9R28026-000-100 R♣	26	191.15	170.75	156.19
689522	9R28034-000-100 R♣	34	247.79	221.36	202.49
689531	9R28037-000-100 R♣	37	239.45	230.50	222.25
689549	9R28040-000-100 R♣	40	292.69	261.50	239.22
689557	9R28050-000-100 R♣	50	347.09	329.16	301.12
689565	9R28060-000-100 R♣	60	440.55	393.56	360.02
689573	9R28064-000-100 R♣	64	468.15	418.23	382.59

## Lowest Price Guarantee

Have you found a product at a lower  
print-advertised price? We'll beat that price  
by 10%, right down to our cost!

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

Call for OEM pricing

## Jameco ValuePro Multicolor Flat Ribbon Cable – 28 AWG

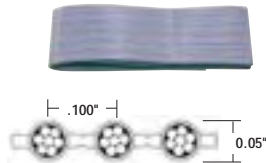
- Standard 10-color repeat sequence
- 28 AWG (7 x 36) • Stranded copper wire
- Center spacing: 0.05"
- Voltage rating: 300V
- Temperature rating: -20°C to +80°C
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
639672	28RC10-10R	10	10' .....	\$3.19	\$2.79	\$2.47
643508	28RC10-25R	10	25' .....	10.07	9.06	8.16
643516	28RC10-100R	10	100' reel ...	27.55	25.39	24.57
643532	28RC16-10R	16	10' .....	4.62	4.56	4.50
643541	28RC16-25R	16	25' .....	16.14	14.50	13.06
643559	28RC16-100R	16	100' reel ...	52.19	46.95	42.26
643575	28RC20-10R	20	10' .....	8.15	7.67	7.19
643583	28RC20-25R	20	25' .....	16.79	15.11	13.60
643591	28RC20-100R	20	100' reel ...	65.25	58.70	52.83
643612	28RC25-10R	25	10' .....	8.39	7.98	7.55
643621	28RC25-25R	25	25' .....	16.79	15.95	15.17
643639	28RC25-100R	25	100' reel ...	59.99	56.99	54.15
643655	28RC34-10R	34	10' .....	10.07	9.57	9.53
643663	28RC34-25R	34	25' .....	21.59	20.39	19.38
643671	28RC34-100R	34	100' reel ...	89.55	85.08	80.82
643698	28RC40-10R	40	10' .....	15.30	13.77	12.39
643701	28RC40-25R	40	25' .....	40.29	36.26	32.64
643719	28RC40-100R	40	100' reel ..	105.99	101.99	98.99
643735	28RC50-10R	50	10' .....	17.46	15.75	14.18
643743	28RC50-25R	50	25' .....	50.34	45.30	40.78
643751	28RC50-100R	50	100' reel ..	163.15	146.75	132.11

## .100" (2.54mm) Flat Ribbon Cable

- 10-conductor 24 AWG stranded
- Insulation material: 7mm polyvinyl chloride (PVC) gray
- Rated temperature: 105°C
- Rated voltage: 300V
- Dielectric strength: 2kV in 1 min.
- Insulation resistance: 100MΩ
- Capacitance: 31pF/m
- Inductance: 1.45μH/m



Part No.	Cross Ref.	Length	1	10	25
363813	H24G-10-10	10' .....	\$10.79	\$10.19	\$9.59
363821	H24G-10-25	25' .....	19.99	18.99	17.99
363856	H24G-10-100	100' .....	69.99	64.99	59.99
363864	H24G-10-250	250' reel .....	199.99	174.99	149.99

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

## Jameco ValuePro Gray Flat Ribbon Cable – 28 AWG

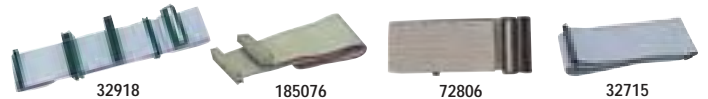
- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC)
- Temperature rating: -20°C to +80°C
- Center spacing: 0.05" • 28 AWG (7 x 36)
- Voltage rating: 300V • Stranded copper wire
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643794	171-10-10R	10	10' .....	\$1.79	\$1.67	\$1.55
643807	171-10-25R	10	25' .....	5.22	4.73	4.25
643815	171-10-100R	10	100' reel .....	15.18	14.51	13.85
643831	171-16-10R	16	10' .....	2.63	2.51	2.39
643840	171-16-25R	16	25' .....	7.35	6.60	5.86
643858	171-16-100R	16	100' reel .....	23.99	23.37	22.79
643874	171-20-10R	20	10' .....	4.45	4.25	4.02
643882	171-20-25R	20	25' .....	8.95	8.56	8.14
643891	171-20-100R	20	100' reel .....	30.69	27.63	24.86
643911	171-25-10R	25	10' .....	4.67	4.55	4.43
643920	171-25-25R	25	25' .....	10.15	9.62	9.11
643938	171-25-100R	25	100' reel .....	35.22	33.53	31.94
643962	171-26-10R	26	10' .....	3.99	3.82	3.58
643971	171-26-25R	26	25' .....	10.85	9.64	8.68
643989	171-26-100R	26	100' reel .....	34.38	32.67	31.04
644033	171-34-10R	34	10' .....	4.89	4.59	4.36
644041	171-34-25	34	25' .....	12.69	12.05	11.44
644050	171-34-100R	34	100' reel .....	43.55	41.36	39.29
644076	171-37-10R	37	10' .....	7.07	6.71	6.35
644084	171-37-25R	37	25' .....	14.10	13.38	12.71
644092	171-37-100R	37	100' reel .....	46.89	44.56	42.33
644113	171-40-10R	40	10' .....	8.87	8.39	7.98
644121	171-40-25R	40	25' .....	20.99	19.91	18.90
644130	171-40-100R	40	100' reel .....	57.59	54.71	51.95
644156	171-50-10R	50	10' .....	8.10	7.67	7.26
644164	171-50-25R	50	25' .....	17.39	16.50	15.66
644172	171-50-100R	50	100' reel .....	66.54	63.18	60.03
644199	171-60-10R	60	10' .....	10.74	10.19	9.66
644201	171-60-25R	60	25' .....	23.70	22.50	21.35
644210	171-60-100R	60	100' reel .....	83.10	77.81	73.90

Quantity SAVE

## Disk Drive & SCSI Cables



Part No.	Description	Length	1	10	100
32918	34-pin header socket ribbon cable for floppy to card	23'	\$3.49	\$2.97	\$2.22
185076	40-pin IDE hard drive cable to card	14'	.95	.71	.53
32686	40-pin IDE hard drive cable to card	18'	.95	.90	.85
72806	Two 40-pin header socket ribbon cable for IDE drive	18'	4.25	3.62	2.71
175492	40-pin header socket ribbon cable for ultra DMA66/100	17'	6.95	6.25	5.49
32715	50-pin header socket ribbon cable SCSI-I (18")	18'	4.29	3.80	3.22

## Jameco ValuePro™ Products: A Great Way to Save!

Jameco's ValuePro line of passive, electromechanical and interconnect products are high-quality electronic components and guaranteed to be at the lowest prices you'll find. In fact, if you find a lower print-advertised price, we'll beat it by another 10%, right down to our cost. No more high-priced brand markup... no more costly layers of distribution...

no more restrictive franchise agreements that hold minimum prices high. Instead, Jameco cuts out the costly markups and layers of distribution and sells its products direct to you, so you can put the savings back in your wallet!



Practical Practices  
Money Saving Tips for the Engineer

## 3.5" Disk Drive Power Adapter Cable

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies



Part No.	Length	AWG	1	10	100
28397	3.5'	22	\$3.29	\$2.98	\$2.58

## 3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



Part No.	Drive	AWG	Length	1	10	100
28354	5.25"	18	5'	\$3.54	\$3.23	\$2.87
277528	5.25"	20	6'	2.85	2.59	1.94
72304	3.5"	22	5'	3.30	2.99	2.63

## AT/ATX Power Supply Extension Cable

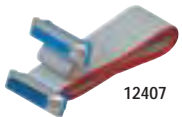
- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply



Part No.	Length	AWG	1	10	100
170238	15'	18	\$6.49	\$6.16	\$5.83

## Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts



Part No.	Description	1	10	100
12407	4' DB25 M-F	\$5.39	\$4.74	\$4.31
208582	6' DB9 M-F	4.74	4.26	3.83

## PC/XT/AT & PS/2 Keyboard Extension Cables

- Color: beige
- 114981/112045:
  - 5-pin DIN male-to-female
- 111053:
  - 6-pin mini DIN female-to-male

**Quantity SAVE**



Part No.	Description	1	10	100
114981	PC/XT/AT 6' non-coiled	\$1.99	\$1.69	\$1.27
112045	PC/XT/AT 10' non-coiled	3.95	3.36	2.52
28549	PS/2 6' non-coiled	4.35	3.89	3.49
111053	PS/2 10' non-coiled	5.49	4.99	4.39

## Macintosh® Printer Cables



Part No.	Description	1	10	50
10604	6' mini DIN8M	\$3.39	\$3.22	\$3.05
130025	10' mini DIN8M	5.99	5.39	4.85

## IEEE 1284 Parallel/ Serial High Speed Cables

Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

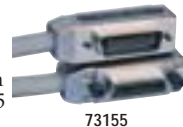


- Double shielded with 28 AWG stranded twisted pair inner conductors • Weight: 0.6 lbs.
- Molded shells, PVC plastic
- Color: beige (P/N 130067/319767); gray (P/N 223845); black (P/N 161630)

Part No.	Description	1	10
130067	6' DB25 M-Cent. parallel 36M	\$11.95	\$10.95
319767	6' DB25 M-Cent. parallel 36M	4.95	3.71
223845	6' DB25 M-Cent. parallel 36M	11.95	10.95
161630	10' DB25 M-M serial cable	14.95	13.49

## IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.



Part No.	Description	Wt. (lbs.)	1	10	25
73155	1 meter	0.8	\$39.39	\$35.41	\$31.85
115781	2 meter	1.2	38.35	34.53	31.25
115802	4 meter	2.0	42.85	39.81	35.15

## Serial Null Modem Cables

- Molded type connectors
- Color: gray
- 181404/180698 Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7
- 181438 Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)
- 180582 Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)
- 180742 Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Description	Wt. (lbs.)	1	10	50
181404	6' DB9 F to DB9 F	0.3	\$5.69	\$5.09	\$4.59
180698	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582	10' DB25 M to DB9 F	0.4	6.69	5.69	4.26
180742	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

## VGA Monitor Cable

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male



Part No.	Description	1	10	100
66174	6' monitor cable	\$7.79	\$7.07	\$6.35
148523	10' monitor cable	7.25	6.49	5.79

## 9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
66157	6' DB9 M-M	\$5.15	\$4.58	\$3.44

## VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles
- 134041:
  - HDDB15 female w/ hex nuts and HDDB15 male w/ thumbscrews
- 66165/148532:
  - Thumbscrews on each end



Part No.	Description	1	10	100
134041	6' screws/hex nuts	\$4.75	\$4.15	\$3.67
66165	6' thumbscrews	7.49	6.78	6.10
148532	10' thumbscrews	8.45	7.66	6.76

## DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray



Part No.	Description	Length	1	10	100
181286	DA15 M-M	6'	\$6.59	\$5.94	\$5.34
181358	DA15 M-F	6'	5.49	4.95	4.45

## DB25-to-Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles



Part No.	Description	Wt. (lbs.)	1	10	100
28716	6' straight	0.4	\$4.74	\$4.28	\$3.84
123781	10' straight	0.6	5.95	5.09	3.98
28708	15' straight	0.8	5.95	5.09	3.79

## 37-Pin Straight Through Cable Adapter

- Molded connectors
- Color: gray
- Weight: 0.9 lbs.



Part No.	Description	1	10	100
181295	6' DC37 M-F	\$5.95	\$5.49	\$4.95

## RGB Video Cables

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male • Weight: 0.9 lbs.



Part No.	Description	1	10	25
73648	6' cable (black)	\$19.95	\$16.99	\$12.75
118068	10' cable (black)	23.35	21.02	18.61

Commercial Customers

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## Monitor/Mouse/Keyboard Cable

- 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse

Quantity SAVE



Part No.	Description	Wt. (lbs.)	1	10
141276	32' cable	4.8	\$39.95	\$29.96

## Switch Box Adapter Cables

### 6-pin mini DIN

- 177261: Male to male non-coiled cable for P/N 79177 switch box, pg 259
- 174772: Male to male
- 174908/205655: Male to male non-coiled
- 112628: Male to male non-coiled cable for P/N 79177 switch box, pg 259

Quantity SAVE



174772



205655

Part No.	Length	Color	1	10	50
177261	2'	Gray	\$2.95	\$2.55	\$1.89
174772	6'	Black	4.95	4.25	3.19
174908	6'	Gray	5.75	5.15	4.65
112628	10'	Beige	7.95	7.25	6.49
205655	25'	Beige	8.95	7.95	6.95

## DB9 Extension Cables



132346

25701

- All lines connected straight through
- 132346/196365: DB9 female to DB9 female cable with thumbscrews
- 199639/25701/148516: DB9 male to DB9 female cable with thumbscrews
- 181665: DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
132346	6' F-F	\$4.95	\$4.49	\$3.95	\$3.49
199639	6' M-F (blk)	5.25	4.59	4.06	3.43
25701	6' M-F	7.05	6.39	5.62	4.97
196365	10' F-F	7.45	6.69	5.98	5.30
148516	10' M-F	7.99	7.25	6.39	5.29
181665	10' M-M	6.95	6.25	5.59	4.95

## 9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5

Quantity SAVE



Part No.	Description	1	10	100
162915	DB9 male to DB9 female	\$2.95	\$2.51	\$1.88

## Digital Camera USB 2.0 Cables

- Color: black
- Length: 6 ft.
- For use w/ digital cameras, memory card readers, etc.



Part No.	Product No.	1	10
673715	USB-A to mini 4-pin	\$2.99	\$2.65
673694	USB-A to mini 5-pin	2.75	2.35

## USB 1.1 Cable

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
169359	6' cable	\$1.79	\$1.59	\$1.35



## DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



31722

Part No.	Description	1	10	100
109584	1' serial, beige	\$4.35	\$3.95	\$3.49
189333	3' serial, beige	3.95	3.39	2.55
207790	4' serial, beige	1.55	1.40	1.26
31722	6' serial, beige	5.09	4.66	4.13
191361	6' serial, gray	4.79	4.35	3.43
155521	10' serial, beige	4.09	3.65	3.25

## DB25 Extension Cables

- Use to lengthen your standard serial cable or for switch box applications
- All lines connected straight through
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001/175291: black\*



67257

Part No.	Description	Wt. (lbs.)	1	10	50	100
174001	3' M-M	0.6	\$5.09	\$4.61	\$4.12	\$3.70
401138	3' M-M	0.4	5.34	5.10	4.79	4.55
65787	6' M-M	0.5	7.79	7.07	6.35	5.87
39538	10' M-M	0.7	6.95	6.29	5.05	3.69
179979	15' M-M	1.2	8.34	7.52	6.76	5.95
67070	25' M-M	1.4	11.05	10.05	9.04	8.03
180435	50' M-M	3.6	14.95	13.49	11.95	9.95
164291	3' M-F	0.4	4.29	3.89	3.49	2.95
175291	3' M-F	0.4	3.15	2.86	2.40	1.69
163133	5' M-F	0.6	6.35	5.70	5.15	4.62
67257	6' M-F	0.6	7.05	6.31	5.72	5.11
39511	10' M-F	0.7	8.15	7.49	6.74	6.07
177279	15' M-F	1.0	9.49	8.55	7.69	6.25
101995	25' M-F	1.4	12.29	11.11	9.98	8.19
181201	50' M-F	3.2	17.95	15.11	11.33	8.50
224267	6' F-F	0.7	7.49	5.97	4.46	3.16

## IEEE 1394 Firewire Cables



175821

175839

175847

Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant
- UL approved
- Molded connectors

### 4-pin Male to 4-pin Male

Part No.	Description	1	10	25
175821	6' cable black	\$5.59	\$5.05	\$4.55

### 4-pin Male to 6-pin Male

Part No.	Description	1	10	25
175839	6' cable black	\$5.59	\$5.05	\$4.55
222228	10' cable black	6.99	6.25	5.65

### 6-pin Male to 6-pin Male

\* Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	25
222615	3' cable black	\$4.99	\$4.45	\$3.95
175847	6' cable black	5.59	5.05	4.55
222201	10' cable black	6.99	6.25	5.65
222210	15' cable black	8.59	7.75	6.95

## USB 2.0 Cables



USB-A (M) to USB-A (M)

USB-A (M) to USB-B (M)

USB-A (M) to USB-A (F)

- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

### USB-A Male to USB-A Male

Part No.	Description	1	10	25
326474	3' cable beige	\$1.55	\$1.39	\$1.29
229682	6' cable beige	1.65	1.49	1.39
222033	6' cable black	1.65	1.49	1.39
229690	10' cable beige	1.89	1.75	1.31
229702	15' cable beige	2.85	2.59	2.49
222050	15' cable black	2.85	2.59	2.49
229577	15' cable clear	3.42	3.11	2.99

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711	3' cable beige	\$1.55	\$1.39	\$1.29
222608	3' cable black	1.55	1.39	1.29
229585	3' cable clear	1.55	1.39	1.29
229730	6' cable beige	1.65	1.49	1.39
222010	6' cable black	1.65	1.49	1.39
229594	6' cable clear	1.65	1.49	1.39
229738	10' cable beige	1.89	1.75	1.65
222018	10' cable black	1.89	1.75	1.65
229607	10' cable clear	1.89	1.75	1.65
229762	15' cable beige	2.85	2.59	2.49
222026	15' cable black	2.85	2.59	2.49
229614	15' cable clear	2.95	2.51	1.88

### USB-A Male to USB-A Female

Part No.	Description	1	10	25
326482	3' cable beige	\$1.55	\$1.39	\$1.29
229771	6' cable beige	1.65	1.49	1.39
222068	6' cable black	1.65	1.49	1.39
229622	6' cable clear	1.65	1.49	1.39
229789	10' cable beige	1.89	1.75	1.65
222076	10' cable black	1.89	1.75	1.65
229631	10' cable clear	2.34	2.15	2.06
229797	15' cable beige	2.85	2.59	2.49
222084	15' cable black	2.85	2.59	2.49
229649	15' cable clear	2.85	2.59	1.94

## Flexible USB Cable

FlexUSB™ is a compact, lightweight accessory that bends, rotates, and flexes to your desired angle. It provides a means to position USB devices, allowing you to use it with any computer, even in the most cramped environment. Its unique ratcheting design makes it possible to position your USB devices that are compatible with both Windows® and MAC platforms.

- Length: 6'

Lower\$\$\$

Part No.	Description	1	5
262158	USB-A male to USB-B male	\$11.95	\$10.34

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Sale Priced Items = Yellow  
Exceptional Quantity Discounts = Green

## USB-A Cables with Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long



Part No.	Description	1	10	25
144813	Female panel mount	\$3.99	\$3.79	\$3.59
319652	Male panel mount	3.99	3.79	3.59

## ATEN USB-to-Centronics Printer Cable

- Full compliance with the USB spec V.1.0
- USB-A male to 36-pin male centronics connector
- Supports true bidirectional communication
- Applicable to standard and bidirectional printers



Part No.	Description	1	10	25
155352	6' USB cable	\$20.19	\$19.70	\$19.20

## USB-to-DB9 Serial Adapter

- USB-A to DB9 male • Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



Part No.	Description	1	10
387954	USB-A to DB9	\$17.95	\$16.15

## JAMECO ValuePro USB Keyboard Adapter

- USB-A female to 6-pin mini DIN male (PS/2)



Part No.	Description	1	10	25
316832	USB-A to PS/2	\$1.79	\$1.59	\$1.39

## CAT 5e/6 Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



Part No.	Description	1	10	100
679762	3' cable RJ45	\$7.95	\$7.15	\$6.29
681096	7' cable RJ45	9.95	8.95	7.69

### CAT 5e

Part No.	Description	1	10	100
681109	3' cable RJ45	\$2.95	\$2.65	\$2.39
681117	7' cable RJ45	4.75	4.45	3.75
302041	6' cable RJ45	3.75	3.39	3.05
685812	7' cable RJ45 (yellow)	4.75	4.45	3.75
169261	10' cable RJ45	9.25	8.31	7.44

## USB Gender Adapters

- 321251: USB-A male to USB-A male
- Dimensions: 1.9"L x 0.6"W
- 316806: USB-A female to USB-A female
- Dimensions: 1.5"L x 0.7"W



Part No.	Description	1	10	25
321251	USB-A male	\$2.79	\$2.37	\$1.78
316806	USB-A female	2.69	2.49	2.25

## Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8

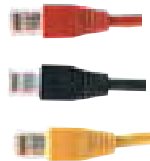
Quantity SAVE



Part No.	Length	Color	1	10	50
219707	3 ft.	Gray	\$2.79	\$2.69	\$2.02
219715	7 ft.	Gray	3.99	3.87	3.68
219723	14 ft.	Gray	6.59	6.37	6.05
219731	25 ft.	Gray	9.39	8.92	6.69
219740	50 ft.	Gray	14.29	13.58	12.90
219854	3 ft.	Blue	2.79	2.69	2.56
219862	7 ft.	Blue	3.99	3.87	3.68
219871	14 ft.	Blue	6.59	6.37	6.05
219889	25 ft.	Blue	9.39	8.92	8.47
219897	50 ft.	Blue	14.29	13.58	12.90
220003	3 ft.	White	2.79	2.39	1.78
220011	7 ft.	White	3.99	3.87	3.68
220046	50 ft.	White	17.15	16.30	15.48
219900	3 ft.	Red	2.79	2.69	2.56
219918	7 ft.	Red	3.99	3.87	3.68
219926	14 ft.	Red	6.59	5.60	4.20
219934	25 ft.	Red	9.39	8.92	8.47
219942	50 ft.	Red	14.29	12.45	9.11
219803	3 ft.	Green	2.79	2.69	2.56
219811	7 ft.	Green	3.99	3.87	3.68
219820	14 ft.	Green	6.59	6.37	6.05
219838	25 ft.	Green	9.39	8.92	8.47
219846	50 ft.	Green	14.29	13.58	12.90
219758	3 ft.	Black	2.79	2.69	2.56
219766	7 ft.	Black	3.99	3.87	3.68
219774	14 ft.	Black	6.59	6.37	6.05
219782	25 ft.	Black	9.39	8.92	8.47
219791	50 ft.	Black	14.29	14.15	10.31
219969	7 ft.	Yellow	3.99	3.87	3.68
219977	14 ft.	Yellow	6.59	6.37	6.05
219985	25 ft.	Yellow	9.39	8.92	8.47
219993	50 ft.	Yellow	14.29	13.58	12.90

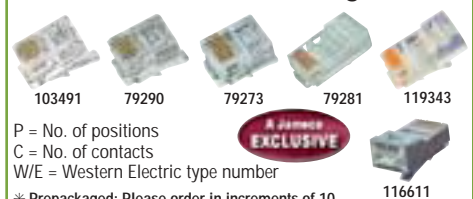
## Category 5e Network Cables

- UTP • 350 MHz
- 8P8C • 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	\$1.79	\$1.49	\$1.39
168305	7 ft.	Gray	3.59	3.11	2.87
168313	15 ft.	Gray	7.49	6.23	5.67
168321	25 ft.	Gray	9.59	8.15	7.67
201777	3 ft.	Red	1.79	1.49	1.39
201785	7 ft.	Red	3.59	3.11	2.87
201793	15 ft.	Red	6.95	5.95	4.45
201806	25 ft.	Red	9.59	8.15	7.67
201697	3 ft.	Black	1.79	1.49	1.39
201700	7 ft.	Black	3.59	3.11	2.87
201718	15 ft.	Black	5.29	4.39	3.99
201726	25 ft.	Black	7.99	6.79	6.39
201734	3 ft.	Blue	1.79	1.49	1.39
201742	7 ft.	Blue	3.49	3.00	2.77
201751	15 ft.	Blue	6.35	5.27	4.79
201769	25 ft.	Blue	9.59	8.15	7.67
201814	3 ft.	Yellow	1.79	1.49	1.39
201822	7 ft.	Yellow	3.49	3.03	2.80
201831	15 ft.	Yellow	6.35	5.27	4.07
201849	25 ft.	Yellow	9.59	8.15	7.67

## Modular Plugs



P = No. of positions  
C = No. of contacts  
W/E = Western Electric type number

\* Prepackaged: Please order in increments of 10

Part No.	Description	W/E	1	10	100	1000
103491	4P4C (handset)	616	*	\$1.11	\$0.099	\$0.089
79290	6P4C (RJ11)	623	*	.12	.11	.095
79273	6P6C (RJ11)	623	.25	.22	.195	.18
79281	8P8C (RJ45) (for solid wire)	641	.47	.38	.28	.25
119343	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35	.28
116611	8P8C (RJ45) shielded	—	1.09	.99	.89	.79
204231	8P8C (RJ45) shielded (for STP stranded wire)	—	1.41	1.36	1.08	.81
116602	8P8C (RJ45) shielded (for solid wire)	—	.99	.79	.65	.49
180646	10P10C (for stranded wire)	—	1.39	1.15	.82	.62

## Modular Jacks



- Voltage rating: 150VAC max. • PC mount
- Contact current rating: 1.5A max. @ 25°C
- Durability: 750 mating cycles
- \* W/E = Western Electric type number

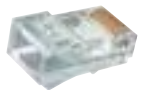
Part No.	Description	W/E	1	10	100
115128	4P4C (handset) 0.395" W	—	\$3.77	\$3.34	\$3.31
151766	6P4C (RJ11) side flange	AMP	.55	.507	.46
204206	6P4C (RJ11) lead wires	—	.94	.85	.64
115837	6P6C (RJ11) side flange	—	.81	.74	.65
204178	6P6C (RJ11) dual	—	1.49	1.35	1.19
124039	6P6C (RJ11) 6' leads	—	1.25	1.15	.99
115844	8P8C (RJ45)	641	.54	.494	.41
204214	8P8C (RJ45) 0.81" L	—	1.22	1.11	.84
203449	8P8C (RJ45) shielded Pin spacing "A" = 0.055"	—	1.39	1.18	.99

### Other Manufacturers — Great Deals

1537416	8P8C (RJ45) Low Profile	—	\$ .95	\$ .89	\$ .66
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## “EZ” RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.



- For solid or stranded wire • 8P8C plug
- Use standard modular crimping tool

Part No.	Product No.	1	10	100	250
158115	RJ45 (8P8C)	\$1.75	\$1.58	\$1.42	\$1.25

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## AMP 8P8C In-Line Coupler, Modular Jacks & Plugs

### In-Line Coupler

- Housing: black polyphenylene oxide
- Panel mount thickness: 0.062" nominal
- Terminals: 0.018" diameter phosphor bronze with 50µ" gold over nickel



Part No.	Product No.	1	10	100
524445	555052-1 R	\$3.45	\$2.99	\$2.77

### Single Port Modular Jacks

- Meets or exceeds FCC part 68 rules and regulations
- Current rating: 1.5A max. @ 25°C (derated)
- Voltage rating: 150VAC max.
- Housing: polyester 94V-0 rated
- Dielectric withstanding voltage: 1000VAC<sub>RMS</sub>
- Contact: 0.014" thick phosphor bronze with 50µ" gold in contact area and 150µ" tin-lead on solder tails over nickel



### Shielded

Part No.	Product No.	Position	1	25	50
524453	555153-1	Side entry, low profile	\$1.33	\$1.26	\$1.20

### Unshielded

Part No.	Product No.	Position	1	25	50
524488	555416-1	Top entry	\$.61	\$.54	\$.52
524461	555164-1	Side entry 12.6mm H	.55	.522	.497

### Unshielded Modular Plugs

- One piece construction with pre-loaded contacts
- Housing: polycarbonate UL94V-0 rated
- Current rating: 15A @ 150VAC
- Terminals: 0.014" thick phosphor bronze under-plated with 100µ" nickel, plated with 50µ" gold in contact region and gold flash on terminal
- Dielectric withstanding voltage: 1000VAC
- Insulation resistance: 5000MΩ
- Meets FCC rules and regulations part 68 and TIA/EIA 568A



Part No.	Product No.	Description	1	25	50
524496	5-557315-3 R	Round solid	\$.50	\$.438	\$.395
524402	5-554169-2 R	Round stranded	.46	.423	.391
524411	5-554720-3 R	Flat oval solid	.50	.475	.428
524429	5-554739-3 R	Flat oval strd.	.46	.423	.399
524525	5-558530-3 R†	Stranded	.68	.66	.60
524533	5-558530-4 R†	Solid	.69	.66	.60

† Load Bar

## Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147	HT200	\$54.95	\$49.49	\$44.55

## Keystone-Type Wall Plates

• Size: 2.8"W x 4.5"H

Quantity SAVE

Part No.	No. of ports	Color	1	10	100
212978	1	White	\$1.19	\$1.01	\$.76
212994	2	White	1.25	1.15	.86
212986	3	White	1.29	1.21	1.04
212960	4	White	1.29	1.19	1.02
195565	3	Ivory	1.25	1.05	.79
195573	4	Ivory	1.25	1.05	.79



## Keystone-Type RJ45 & RJ11 Jacks

### Modular Punchdown Type

- Removable jacks used in wall plates (shown above)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D

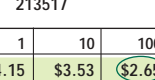
RJ45: 8P8C RJ11: 6P6C

### RJ45

Part No.	Color	1	10	100
195590	Red	\$4.15	\$3.53	\$2.65
195602	Yellow	3.59	3.39	3.19
195612	Green	3.75	3.19	2.39
195630	Black	4.05	3.83	3.44
195637	Ivory	3.55	3.24	2.43
212951	Blue	3.75	3.19	2.39
212944	White	3.75	3.55	3.19

### RJ11

Part No.	Color	1	10	100
213524	Black	\$3.75	\$3.55	\$2.66
213517	White	3.75	3.55	3.19



## Network Connectors

CAT 5e Coupler • RJ45 female

Part No.	Product No.	1	10	100
615048	45-5439	\$5.39	\$5.05	\$4.79

180° IDC Toolless Design • CAT 5e

Part No.	Product No.	1	10	100
615144	45-5837	\$2.79	\$2.67	\$2.54

## RJ45 Plug Color Caps (Boots)

- Round strain relief
- 10 piece minimum



Part No.	Color	10	100	500	1000
204410	Black	\$.14	\$.13	\$.12	\$.09
204353	Gray	.154	.143	.132	.099
204362	Blue	.14	.12	.098	.073

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For Molex Modular Connectors  
visit our website today.

## Modular Couplers and Adapters

JAMECO ValuePro

A Jameco EXCLUSIVE



Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"

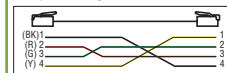


Fig. 2  
W: 1.1"  
H: 0.8"

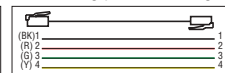


Fig. 3  
W: 1.7"  
H: 1.0"  
D: 0.9"

Style 1 Reverse wiring for telephone systems



Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
72207	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	\$1.31	\$1.12	\$.84
71757	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087	6P6C modular coupler, Style 2, RJ11	1	1.09	.93	.70
181091	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P6C), 2 female modular receptacles (6P6C) RJ11	2	1.19	1.07	.94
118501	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023	8P8C modular coupler, Style 2 (for CAT 5) RJ45	3	7.99	7.19	6.49

## Modular Jack Boxes & Wall Plates



Fig. 1 W: 2.8" H: 4.5" Fig. 2 W: 2.8" H: 4.5" Fig. 3 W: 2.8" H: 4.7" Fig. 4 W: 2.0" H: 2.2" D: 0.9" Fig. 5 W: 1.5" H: 2.4" D: 1.1" Fig. 6 W: 2.4" H: 2.4" D: 1.1"

Part No.	Description	Fig.	1	10	100
72311	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	\$1.95	\$1.75	\$1.31
319839	8P8C triple wall jack plate w/ jacks (white) (CAT 6)	2	11.19	10.65	7.99
319821	8P8C quad wall jack plate w/ jacks (white) (CAT 5e)	3	11.75	11.15	8.36
103464	6P4C adhesive jack RJ11 (beige)	4	1.39	1.19	1.09
71984	6P6C adhesive jack RJ11 (beige)	4	1.39	1.19	.99
71651	8P8C adhesive jack RJ45 (beige)	4	1.95	1.65	1.45
213032	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	5	3.29	2.99	2.69
213049	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	6	4.55	3.87	2.90

## Banjo In-Line Modular Adapters

4/6/8 Pin 3-In-1

Adapter can be applied to any brand of butt sets, LAN cable testers, or tone generators.



Part No.	Product No.	Description	Price
673723	MT-8091	In-line modular adapters	\$24.39

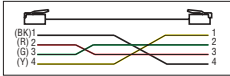
## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

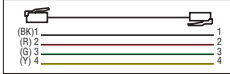


Low Cost Data/Phone Cables

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing

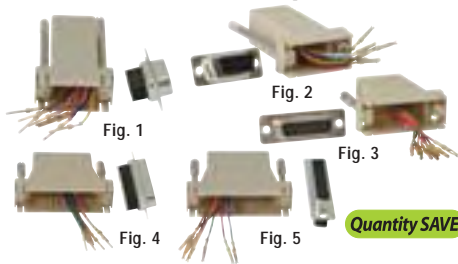


Quantity SAVE

Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
189940	1	RJ11-6P2C	7ft.	\$ .99	\$ .85	\$ .65
196227	1	RJ11-6P4C	7ft.	1.69	1.29	.97
115554	2	RJ11-6P4C	7ft.	1.59	1.40	1.14
115545	1	RJ11-6P4C	25ft.	2.99	2.72	2.41
201232	2	RJ11-6P4C	35ft.	2.49	2.25	1.69
115588	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
355653	2	RJ11-6P6C	14ft.	2.75	2.34	1.75
115677	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

## Telco Adapters



Quantity SAVE

Part No.	Fig.	Prod. No.	Description	1	10	100
614969	1	45-5109	6C RJ12 to DB9 M	\$2.99	\$2.27	\$2.04
614977	1	45-5110	8C RJ45 to DB9 M	2.45	2.31	2.21
614985	2	45-5111	4C RJ11 to DB9 F	2.49	2.27	1.71
614993	2	45-5112	6C RJ12 to DB9 F	2.45	2.31	1.96
615005	2	45-5113	8C RJ45 to DB9 F	2.45	2.31	1.96
615013	3	45-5117	8C RJ45 to DB15 F	3.39	2.73	2.34
615021	4	45-5123	8C RJ45 to DB25 M	2.89	2.73	2.34
615030	5	45-5127	8C RJ45 to DB25 F	2.69	2.47	2.22

## Retractable Cord

- Length: 24', 12'
- 4 conductors
- 18 AWG (42 x 34)
- Bare copper, rubber insulated, cabled with fillers
- Black neoprene jacket
- Voltage rating: 300V
- UL listed and CSA certified

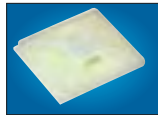


Part No.	Product No.	1	10	100
481895	9482	\$37.85	\$29.63	\$27.25

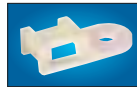
## Cable Tie Mounts and Cable Clamps

- Tie mount and screw tab cable clamps
- Sold in increments of 10

- Material: UL approved nylon 66, 94V-2



182942/171214  
71407/71395/71386



70595



182301/173761



182376



182334/182343



173729/173737  
134754

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Description	10	100	1000
182942	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	\$ .066	\$ .051	\$ .062
171214	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.156	.113	.11
71407	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.185	.165	.134
71395	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	.30	.228	.156
70595	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.17	.102	.057
182301	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.11	.082	.088
182376	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	.29	.261	.222
182334	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.17	.15	.113
182343	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.15	.135	.122
173729	UC0.5	Cable clamp for 3/16" cable	.039	.024	.022
173737	UC1	Cable clamp for 1/4" cable	.15	.097	.068
134754	BO375	Cable clamp for 3/8" cable	.079	.068	.042

## RS-232-to-RJ11/RJ45 Modular Jack Adapters



Quantity SAVE

Change your RS-232 port to an RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
204265	DB9 M to RJ11 (6P4C)	\$1.95	\$1.66	\$1.24
66181	DB9 M to RJ11 (6P6C)	2.59	2.35	2.09
66191	DB9 M to RJ45 (8P8C)	2.89	2.65	2.35
114738	DB9 F to RJ11 (6P4C)	2.34	2.15	1.91
66202	DB9 F to RJ11 (6P6C)	2.79	2.55	2.29
66212	DB9 F to RJ45 (8P8C)	2.99	2.69	2.45
66229	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
204273	DB25 F to RJ11 (6P4C)	1.95	1.75	1.31
66245	DB25 F to RJ11 (6P6C)	2.59	2.20	1.65
66253	DB25 F to RJ45 (8P8C)	2.89	2.59	2.29

## RJ11 Retractable Cable

This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.



Part No.	Description	1	5
233349	RJ11 retractable cable	\$2.95	\$2.21

## Nylon Cable ID Ties and Tabs



71062: Clear ID tab (0.98" x 0.31")  
 135175: Nylon cable tie ID marker

- Sold in increments of 10

Part No.	Size	10	100	1000
71062	4.0"L x 0.1"W	\$ .091	\$ .085	\$ .076
135175	2.0"L x 0.8"W x .02"T	.22	.148	.108

## Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life



- Sold in increments of 10

Part No.	Cable Type	Lgth (in.)	10	100	1000
182351	SVI/SVT	.43	\$ .052	\$ .039	\$ .041
182369	SJ/SJT; 16 AWG	.58	.18	.102	.077

## Bushing Assembly Tool

- For use with strain relief bushings, above



Part No.	Description	1	10	100
73470	Bushing tool	\$42.19	\$38.94	\$33.51

We're Listening to Your Requests

Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com) with suggestions for products you'd like to see in future catalogs.

## Nylon Cable Ties

### Standard

70561

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676 white)
- Sold in increments of 100



Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70561	18	3.1 x 0.10	.025	.015
126544	18	4.0 x 0.10	.025	.017
182676	18	4.75 x 0.13	.023	.029
182651	18	5.5 x 0.13	.035	.025
139150	18	8.0 x 0.10	.048	.048
182669	18	8.0 x 0.13	.075	.05
182685	18	8.0 x 0.18	.036	.033
70907	40	5.8 x 0.10	.035	.029
190756	40	10.0 x 0.14	.12	.086
190772	40	11.0 x 0.19	.115	.083
190764	40	13.0 x 0.14	.115	.083

\* White

### Weather Resistant

104142

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- Color: black
- Sold in increments of 100



UV Resistant

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125	18	3.0 x 0.90	.045	.034
104142	18	4.0 x 0.10	.044	.029
104134	40	5.8 x 0.10	.058	.038
190782	40	8.0 x 0.13	.108	.083
190800	40	10.0 x 0.14	.115	.093
190802	40	13.0 x 0.14	.134	.104

### Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701:  
1000 pcs. (4"L); 10 colors

150412:  
500 pcs. (4"L); 300 pcs. (8"L);  
50 pcs. (11"L), 5 colors



145701 (closeup)

Part No.	Wt. (lbs.)	1	10	50
145701	0.7	\$9.99	\$8.99	\$7.99
150412	1.7	16.99	15.99	14.99

## Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action
- Metal



Part No.	Cross Ref. No.	1	5	10
182298	0302TG-7	\$19.15	\$17.99	\$16.86

## Nail-In Cable Clips

- For RG-6 type cables
- Includes 1" nail
- 100 per pack



Part No.	Description	1	10
295603	Single RG-6 cable clip, white	\$3.39	\$2.85
295591	Single RG-6 cable clip, black	3.19	2.65
295611	Dual RG-6 cable clip, white	3.45	2.85
295620	Dual RG-6 cable clip, black	3.45	2.85

## 3M Adhesive Cord Clips

Organize cords behind computers, appliances and entertainment centers. They remove cleanly and may be reused with a new Command™ adhesive strip. Holds wires up to 3/8 inch in diameter. 4 medium clips and 5 small adhesive strips per pack.



Part No.	Description	1	10
645861	Adhesive cord clips	\$3.89	\$3.44

## 3M Small Cord Clips

Quantity SAVE

3M™ Cord Clips with Command™ Adhesive help organize all of those unsightly cords that run from the back of computers, appliances and home entertainment centers. They mount easily to any clean wall or finished wood surface and can be moved just as easily with replacement adhesive strips. 4 clips and 5 small adhesive strips per pack.

Blue Part No. = Limited Quantity Available



Part No.	Description	1	10
645853	Adhesive cord clips	\$3.49	\$2.61

## 3M Tape Wire Marker

- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Description	1	10
159231	Numerical tape dispenser	\$37.89	\$35.95

## 3M ScotchCode™ STD-C Wire Marker Tape Dispenser

The 3M™ ScotchCode™ tape dispenser is a compact, carry-along dispenser with ten refillable compartments that hold eight-foot rolls of non-smear polyester tape. Used for marking binder groups, wire or cable, the tapes' high tack, acrylic adhesive resists solvents, oil and water, and adheres firmly to insulation surfaces. An end-loop hooks the dispenser easily to a tool pouch or belt.



Part No.	Description	1	5
652164	Marker tape dispenser	\$36.35	\$35.58

## Self Adhesive Wire Marker

- 90 markers per number
- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used after or before terminal

Blue Part No. = Limited Quantity Available



Part No.	Cross Ref. No.	1	10
182262	0215WMB-1	\$7.09	\$6.45

## Cable Markers

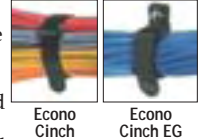
- UL approved natural nylon
- 10 piece minimum



Part No.	Size	10	100	1000
182705	1.5"L x .75"W	\$1.08	\$0.96	\$1.08
182713	2.5"L x 1.76"W	.25	.23	.20

## RIP-TIE EconoCinch/EG CableTies

The loop lock acts like a pulley, giving you leverage to pull the strap as tight as needed. The non-metallic buckle is safe to use around electrical and magnetic equipment. The EconoCinch EG has a solid brass grommet w/ an ID of 1/4".



Part No.	Description	1	10
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744691	EconoCinch, 3/4"W x 18"L	\$10.69	\$10.45
746081	EconoCinch, 3/4"W x 36"L	13.65	13.35
748588	EconoCinch EG, 3/4"W x 7"L	8.69	8.49
749951	EconoCinch EG, 3/4"W x 10"L	9.65	9.45

## RIP-TIE Rip-Tie Lite & Wrap Strap

- Patented one end permanently attaches to the cable and the other end has a pull tab
- Durable – made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength
- Reusable and permanent



Part No.	Description	1	10
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700699	1/2"W x 8"L, rainbow	\$8.75	\$8.55
700701	1/2"W x 8"L, black	8.75	8.55
744624	1/2"W x 10"L, rainbow	12.25	11.99
744632	1/2"W x 10"L, black	12.25	11.99

## RIP-TIE Cable Wrap

- Patented one end permanently attaches to the cable and the other end has a pull tab
- Durable – made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength
- Reusable and permanent



Part No.	Description	1	10
700681	1"W x 6"L, black	\$8.49	\$8.29

## RIP-TIE Gecko Tape

- Low cost
- Non-adhesive, self-gripping tape



Part No.	Description	1	10
744667	1/2"W x 30"L, black	\$4.79	\$4.69
744675	1/2"W x 75"L, black	11.69	11.45

## RIP-TIE Cable Catch

- Easy to install, simply peel-away adhesive cover of the cable catch
- Anchor cords, cables, & wires neatly along surfaces and out of the way
- Acrylic pressure sensitive adhesive securely attaches to equipment racks, desks, or walls
- Pull of the tab releases bundle for easy rearranging and quick equipment set-ups



Part No.	Description	1	10
744683	1"W x 4"L, black	\$15.59	\$15.25

## Split Loom Cable Wrap

NEW

Bundle and protect cables and cords.

- High temperature rating
- 1/2" diameter with slit
- Color: black
- 25' spool




Part No.	Description	1	10
1585531	25' split loom	\$9.95	\$8.95

## 3M Heat Shrink Tubing Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation.



- 285481:** Black 102 pieces  
• Assorted pre-shrink sizes: 3/16" (30 pcs.); 1/4" (28 pcs.); 3/8" (20 pcs.); 1/2" (14 pcs.); 3/4" (6 pcs.); 1" (4 pcs.) • Pre-cut to 6" lengths
- 645976:** Assorted colors 133 pieces  
• 7 colors: black, red, white, yellow, blue, green and clear  
• Assorted pre-shrink sizes: 3/32" (35 pcs.); 1/8" (28 pcs.); 3/16" (21 pcs.); 1/4" (21 pcs.); 3/8" (14 pcs.); 1/2" (14 pcs.) • Pre-cut to 6" lengths

Part No.	Description	1	5	10
285481	Black 102-pc. kit 	\$59.75	\$56.79	\$53.95
645976	Colors 133-pc. kit 	\$59.99	\$56.99	\$54.15

## Heat Shrink Tubing

- 2:1 uniform shrink ratio
  - Color: black
- ### Polyolefin Tubing
- Shrink temp: 90°C
  - Only sold in 10' & 100' lengths








Part No.	Dia. Before (mm)	Length (ft.)	1	25
644834	0.12" (3)	10	\$1.65	\$1.56
644851	0.12" (3)	100	10.59	10.10
644869	0.16" (4)	10	1.73	1.65
644877	0.16" (4)	100	14.75	13.98
644906	0.20" (5)	10	1.55	1.47
644914	0.20" (5)	100	14.99	14.25
644931	0.24" (6)	10	1.69	1.55
644949	0.24" (6)	100	16.49	15.67
644957	0.31" (8)	10	2.29	2.17
644965	0.31" (8)	100	17.99	17.49
644973	0.43" (11)	10	3.35	3.23
644981	0.43" (11)	100	24.99	23.75
644990	0.59" (15)	10	3.69	3.16
645001	0.59" (15)	100	35.99	34.19

## Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Flame retardant
- Shrink temp.: 90°C
- Temp. range: -45°C to +125°C
- \* Precut 39" length (1 meter)



Part No.	Dia. Before (mm)	1*	10*	100*
71327	.059" (1.5) 	\$ .55	\$ .46	\$ .41
71871	.079" (2.0) 	.55	.45	.39
71280	.098" (2.5) 	.69	.59	.44
72063	.197" (5.0) 	.89	.76	.57
216478	.275" (7.0) 	1.19	1.01	.76
226245	.375" (9.5)	1.31	1.18	1.06

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For RayChem Heat Shrink products visit our website today.

## Polyolefin Heat Shrink Tubing











### FIT221/FIT221B Series

Insulation from environment and resistance from water fungus and UV light. Use for general purpose insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.











- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm) • Volume resistivity: 10<sup>14</sup>Ω-cm



### Black (4 ft.)

Part No.	Product No.	Min./Max. ID (ins.)	1	5	25
419101	FIT221B-3/64 	.046/.023	\$.67	\$.60	\$.57
419127	FIT221B-1/16 	.063/.031	.75	.68	.66
419143	FIT221B-3/32 	.093/.046	.72	.64	.61
419160	FIT221B-1/8 	.125/.062	.86	.77	.76
419186	FIT221B-3/16 	.187/.093	.95	.84	.83
419207	FIT221B-1/4 	.250/.125	1.43	1.28	1.26
419223	FIT221B-3/8 	.375/.187	1.31	1.17	1.11
419240	FIT221B-1/2 	.500/.250	1.48	1.32	1.26

### Clear (4 ft.)

Part No.	Product No.	Min./Max. ID (ins.)	1	5	25
419119	FIT221-3/64 	.046/.023	\$.72	\$.65	\$.63
419135	FIT221-1/16 	.063/.031	.88	.74	.70
419151	FIT221-3/32 	.093/.046	.80	.74	.68
419178	FIT221-1/8 	.125/.062	.90	.81	.78
419194	FIT221-3/16 	.187/.093	1.14	1.02	.95
419215	FIT221-1/4 	.250/.125	1.41	1.27	1.17
419231	FIT221-3/8 	.375/.187	1.55	1.37	1.32
419258	FIT221-1/2 	.500/.250	1.75	1.60	1.50
419274	FIT221-3/4 	.750/.375	2.45	2.29	2.14
419291	FIT221-1 	1.00/.500	3.79	3.39	3.21







### Lowest Price Guarantee



## FLEXO® Clean-Cut Braided Sleeve

- Dense braid structure provides fuller coverage
- Fray resistant when cut with scissors
- Color: black
- Cut and abrasion resistant
- UV resistant
- Length: 25 feet
- Maintains properties across wide temperature range








Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia. (ins.)	Outside Dia. (ins.)	1	10
162157	CCP0.25BK25 	5/32 - 7/16	0.250	0.440	\$15.95	\$14.95
162165	CCP0.50BK25 	1/4 - 3/4	0.500	0.750	17.95	14.49
690013	CCP0.75BK25 	5/8 - 1	0.750	0.798	14.99	13.99
690021	CCP1.00BK25 	3/4 - 1 3/16	1.000	1.048	15.99	14.99
690030	CCP1.25BK25 	1 - 1 1/2	1.250	1.298	17.09	16.49
690048	CCP1.50BK25 	1 1/4 - 2	1.500	1.548	22.99	21.99



## FLEXO® PET Braided Sleeve

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- Color: black
- High tensile strength
- Cut and abrasion resistant
- UV resistant
- Maintains properties across wide temperature range
- Length: 25 feet



Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia. (ins.)	Outside Dia. (ins.)	1	10
693679	PTN0.25BK25 	1/8 - 7/16	0.250	0.300	\$6.45	\$6.10
693687	PTN0.38BK25 	3/16 - 5/8	0.375	0.425	9.45	8.96
695383	PTN0.50BK25 	1/4 - 3/4	0.500	0.550	11.85	10.59
695391	PTN0.75BK25 	1/2 - 1 1/4	0.750	0.800	15.85	15.05
695412	PTN1.25BK25 	3/4 - 1 3/4	1.250	1.300	20.35	19.24


## Heat Gun/Stripper

### Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping



- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed
- Weight: 1.8 lbs.
- Size: 9.3"L x 7.0"W

Part No.	Description	1	10	25
76865	Heat gun 	\$39.95	\$35.95	\$31.95

JAMECO ValuePro

## Audio/Video Cables and Adapters

### RCA Cables

Part No.	Description	1	10	25
228443	3' stereo RCA (2) male to (2) male plugs, gold plated	\$1.75	\$1.64	\$1.52
183312	4' RCA male to male plug (black)	1.05	.91	.81
206974	4' RCA male to male plug (yellow)	.99	.89	.79
106374	6' RCA male to male plug	1.19	1.02	.94
228419	6' mono RCA male plug to female jack	1.98	1.74	1.50
228486	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451	6' RCA stereo (2) male to (2) male plugs, gold plated	2.15	2.03	1.91
228401	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
228427	10' RCA female jack to male plug	2.39	1.97	1.81
29348	10' RCA male to male plug (yellow)	1.75	1.58	1.38
228460	12' RCA stereo (2) male to (2) male plugs, gold plated	2.51	2.27	2.10
225980	12' RCA (3) male to (3) male plugs, gold plated	4.95	4.27	3.17
225998	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435	25' mono RCA male to male plug, nickel plated	2.63	2.51	2.39
228478	25' RCA stereo (2) male to (2) male plugs, gold plated	2.87	2.75	2.63

Blue Part No. = Limited Quantity Available

### Video/Audio Patch Cables

Part No.	Description	1	10	25
228216	3' stereo video patch cable, gold plated	\$1.23	\$1.16	\$1.10
228574	25' stereo video patch cable, gold plated	6.99	6.29	5.65
228582	50' stereo video patch cable, gold plated	14.35	12.94	11.62



### 3.5mm Audio Patch Cables

Part No.	Description	1	10	25
319206	27" 3.5mm mono male to male plug	\$1.19	\$1.01	\$0.75
664288	3' 3.5mm stereo male to male plug (black)	1.09	.99	.75
326529	6' 3.5mm stereo male to male plug (green/blue)	1.39	1.18	.89
228494	6' 3.5mm stereo male to male plug (black)	1.45	1.26	1.05
228515	6' 3.5mm stereo male plug to female jack	1.95	1.79	1.69
228507	12' 3.5mm stereo male to male plug (black)	1.69	1.49	1.29
228523	12' 3.5mm stereo male plug to female jack	1.98	1.79	1.62

JAMECO ValuePro

## S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players

228558/228566: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228558	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391	S-video male plug to RCA video female jack	5.39	4.85	4.39
295881	S-video female jack to RCA video male plug	5.39	4.85	4.39
303351	S-video male plug to RCA video female jack	5.39	4.58	3.43

### Other Manufacturers — Great Deals

682662	S-video M-M plug 6'	\$1.95	\$1.79	\$1.59
683075	S-video M-RCA female jack adapter	4.95	4.49	3.59

## BNC To RCA Cable

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.

Part No.	Description	1	10	50	100
683059	RG-59 BNC to RCA cable	\$3.95	\$3.49	\$2.95	\$2.19

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For Molex RF & Coax Products visit our website today.

JAMECO ValuePro

## 3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231160/231167: With spring strain relief

Part No.	Cross Ref. No.	Description	1	10	100	1000
109496	PJ035PM	Mono F jack, 3.5mm hole size	\$0.53	\$0.472	\$0.425	\$0.378
165730	PJ035A	Mono F jack, 3.5mm hole size	.79	.67	.56	.45
101152	PJ1035	Mono male plug, plastic	.58	.45	.42	.35
231160	PJ1035	Mono male plug, plastic	1.50	1.43	1.31	1.31
231176	AP-340	Stereo male plug, plastic	.66	.516	.432	.384
231167	AP-343	Stereo male plug, metal	2.15	1.92	1.74	1.56

## Component Video and Audio Cables

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	2	5
228620	6' component video RGB cable	\$9.99	\$8.99	\$7.96
228638	12' component video RGB cable	19.95	16.96	12.72
228646	25' component video RGB cable	25.95	23.36	21.02
229403	6' component video RGB and stereo audio cable	14.95	13.46	12.11
229420	25' component video RGB and stereo audio cable	29.95	26.96	23.86

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## RG-6/RG-59 75Ω Coaxial Cables

Quantity SAVE

Part No.	Type	Length (ft.)	1	10
85585	RG-59	3	\$1.05	\$ .95
355670	RG-59	75	17.95	13.46
297668	RG-6	75	14.69	11.02

## RCA Metal Plugs

- High-quality metal housing RCA plugs

Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Description	1	10	25	100
229876	Black stripes	\$2.27	\$2.03	\$1.86	\$1.67
229868	Red stripes	2.27	2.03	1.86	1.67
229884	White stripes	2.27	1.94	1.65	1.36
230287	Yellow stripes	2.27	2.03	1.86	1.65

## RCA Plastic Plugs

- High-quality plastic RCA plugs

Plastic screw-on cover w/ integral cable protection

Part No.	Description	1	10	25	100
229921	Black (5 pk)	\$1.15	\$1.05	\$ .91	\$ .68
229930	Red (5 pk)	1.15	1.05	.91	.82
229913	White (5 pk)	1.43	1.31	1.14	1.07

## RCA Jacks



- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions (WxDxH)	1	10	100	1000
220581	1	PCB mount, white	.44" x .56" x .48"	\$.45	\$.31	\$.28	\$.22
220556	1	PCB mount, red	.44" x .56" x .48"	.51	.34	.31	.252
220572	1	PCB mount, black	.44" x .56" x .48"	.49	.29	.27	.24
112476	1	PCB mount, red	.44" x .58" x .48"	.47	.42	.372	.228
169502	2	PCB mount, black	.40" x .85" x .50"	.47	.42	.384	.312
1537150	3	PCB mount, red/white	1.1" x .40" x .51"	.69	.63	.49	.35
689881	4	PCB mnt., 1x3 grid, rd/wt/ylw	1.7" x .61" x .62"	.99	.89	.79	.65
159485	5	Panel mount, black	.84"W x .38"H	.75	.60	.505	.368
172340	5	Panel mount, red	.84"W x .38"H	.59	.468	.372	.276
319249	6	Panel mnt., 1x4 grid, rd/bk	2.9" x .48" x .98"	1.43	1.19	1.13	1.07
319071	7	Panel mnt., 2x4 grid, rd/bk	3.0" x .49" x 1.40"	1.67	1.43	1.36	1.29

## Audio Adapters and Cables



### RCA Audio Adapters

Part No.	Description	1	10	25	100
228283	RCA female jack to mono 1/4" male plug	\$ .99	\$ .89	\$ .69	\$ .55
228267	RCA female to female jack coupler, gold plated	.95	.79	.55	.45

### RCA Y-Cables

Part No.	Description	1	10	25	100
139038	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
682793	6' Y-cable 1/8" stereo M plug to (2) RCA mono M plugs	2.29	2.09	1.89	1.70
228371	6' Y-cable (2) RCA M plugs to RCA F jack	1.11	.99	.90	.81
228355	6' Y-cable RCA M plug to (2) RCA F jacks	1.85	1.63	1.51	1.12
228380	6' Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.95	1.76	1.59	1.19

### 3.5mm Y-Cables

Part No.	Description	1	10	25	100
228398	6' Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	\$1.95	\$1.65	\$1.35	\$1.25
228380	6' Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.95	1.76	1.59	1.19

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## Microphone (XLR) Connectors



Part No.	Cross Ref. No.	Description	1	10
319011	250-710	3-pin male microphone, metal	\$2.35	\$2.17
319003	250-720	3-pin female microphone, metal	2.29	2.20
319046	250-700	3-pin male microphone, metal, panel mount	3.25	2.79
319038	250-705	3-pin female microphone, metal, panel mount	4.15	3.39

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## Switchcraft®

Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

## RCA Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25	100
281800	3502R	1	RCA mono phone audio plug, metal	33.8L x 5.0 ID	\$2.10	\$1.63	\$1.30	\$0.98
281797	3501FP	2	RCA phone audio jack, metal	16.3 x 6.0 Dia.	1.49	1.14	1.05	.97

Blue Part No. = Limited Quantity Available

## Audio Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25	100
281869	750R	3	3.5mm mono audio plug, plastic	14.0 x 41.5 x 5.7 ID	\$3.09	\$2.73	\$2.44	\$2.35
281834	41R	4	3.5mm audio jack	7.8 x 5.9	1.55	1.47	1.42	1.29
297297	850R	5	2.5mm mono phone audio plug, plastic	25.8 x 6.35 Dia.	2.89	2.83	2.60	2.51
281789	297R	6	1/4" stereo phone audio plug, metal	73.7 x 7.6 ID	5.29	4.71	4.28	3.89
281771	280R	7	1/4" mono phone audio plug, metal	73.7 x 7.6 ID	3.95	3.12	3.09	2.89
281762	267R	8	1/4" stereo phone audio plug, plastic	73.7 x 7.6 ID	4.85	4.06	3.73	3.39
281754	250R	9	1/4" mono phone audio plug, plastic	73.7 x 7.6 ID	3.25	2.81	2.57	2.35
281746	12BR	10	1/4" stereo phone audio jack	14.7 x 9.1 Dia.	1.79	1.66	1.59	1.49
281738	11R	11	1/4" mono phone audio jack	12.8 x 9.1 Dia.	1.67	1.55	1.43	1.38
296892	12AR	11	1/4" mono phone audio jack, metal	31.7 x 9.4 Dia.	1.75	1.61	1.53	1.46
297001	121	12	1/4" mono phone audio jack, metal	63.5 x 12.7 Dia.	7.49	7.29	7.09	6.77
296981	112BR	13	1/4" phone audio jack, 3C, plastic	34.8 x 15.87 Dia.	1.79	1.66	1.58	1.54

## Power Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25	100
281842	712AR	14	2.5mm DC power jack, panel mount	15.8 x 7.5 Dia.	\$2.05	\$2.03	\$2.02	\$1.51
281851	722AR	14	2.1mm DC power jack, panel mount	15.1 x 7.5 Dia.	2.15	2.00	1.93	1.85
297588	RAPC722R	16	2.0mm x 5.5mm DC power jack, RA	10.9H x 8.8W x 14.3D	1.35	1.02	.94	.89
297553	PC712AR	15	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	2.99	2.79	2.59	2.53
297529	L712AR	17	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	4.25	4.03	3.70	3.57
281877	760R	18	2.5mm x 5.5mm DC power plug, plastic	9.6 x 36.3 x 5.7 Dia.	2.49	2.25	2.05	1.99
297617	S760R	18	2.1mm x 5.5mm DC power plug, plastic	25.4 x 9.5 Dia.	2.45	2.26	2.17	2.07

Blue Part No. = Limited Quantity Available

## Microphone (XLR) Connectors

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25	100
277026	A3FR	19	3-pin female, metal	82.5 x 5.3 Dia.	\$4.95	\$4.42	\$4.05	\$3.69
281560	A3MR	20	3-pin male, metal	70.3 x 5.3 Dia.	4.09	3.74	3.55	3.37
281640	D3FR	21	3-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	5.65	4.98	4.57	4.15
281586	A4FR	19	4-pin female, metal	82.0 x 5.5 Dia.	7.99	6.13	5.63	5.11
281594	A4MR	20	4-pin male, metal	71.2 x 4.8 Dia.	5.09	4.54	4.16	3.78
297457	C4MR	22	4-pin male, metal, panel mount	30.2 x 36.3 Dia.	6.55	5.67	5.35	4.54
281607	A5FR	19	5-pin female, metal	82.0 x 4.7 Dia.	12.09	9.92	9.10	8.27
281615	A5MR	20	5-pin male, metal	70.2 x 5.3 Dia.	10.39	7.89	7.24	6.58
281623	A6FR	19	6-pin female, metal	80.2 x 4.6 Dia.	12.95	11.29	10.35	9.99
281631	A6MR	20	6-pin male, metal	70.5 x 4.5 Dia.	10.49	9.44	8.28	6.15
281703	D6FR	21	6-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	22.79	20.51	17.43	13.08
281711	D6MR	23	6-pin male, metal, panel mount	27.0W x 36.3H x 30.6D	12.35	11.80	10.99	10.37



### Professional Microphone (XLR) Cables and Adapters

Quantity SAVE

305251	305200	305285	305277	305293/307694
Part No.	Cross Ref. No.	Description	1	10
305251	251-310	3-pin female to female gender changer	\$7.49	\$6.99
305200	251-320	3-pin male to male gender changer	8.25	6.19
305285	251-330	1/4" jack to 3-pin female XLR adapter	8.65	7.91
305277	251-340	1/4" jack to 3-pin male XLR adapter	7.05	5.29
305293	255-290	1/4" jack to 3-pin XLR female cable, 20'	10.39	7.79
307694	255-293	1/4" jack to 3-pin XLR female cable, 60'	19.59	14.69

### RCA/Phono Jacks

NEW

• Snap-fit mount

Part No.	Product No.	Color	1	5	50
1581513	577R	Vertical, red	\$0.67	\$0.61	\$0.55
1581564	901R	90°, black	.62	.56	.51

1581513

1581564

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# CPC Connectors, Accessories & D-Sub Accessories

AMP – Biggest Name in Quality Connectors

**AMP**

## CPC Circular Plastic Connectors



### Series 1

#### Standard density, signal & low-current applications

- Accepts type III+; high-current type II & subminiature coax contacts
- Voltage rating: 600V (UL)

#### Free Hanging Receptacles

Part No.	Product No.	Arr.	Sex	1	10
495154	206043-3	17-14	Reverse	\$2.49	\$2.36
495091	206429-1	11-4	Reverse	<del>\$2.85</del> 2.45	2.00
495242	206705-2	13-9	Standard	1.95	1.76

#### Square Flange Receptacles with Mounting Holes

421382	206036-1	17-16	Standard	\$2.05	\$1.87
495146	206043-1	17-14	Reverse	2.29	2.05
495171	206151-1	23-37	Standard	2.35	2.14
495200	206306-1	23-37	Reverse	2.65	2.15
495218	206430-1	11-4	Reverse	2.09	1.64
495162	206061-1	11-4	Standard	2.22	2.02
495293	211401-1	13-7	Standard	3.25	3.09

#### Plugs

495322	206037-1	17-16	Standard	\$2.55	\$2.34
495031	206044-1	17-14	Reverse	2.55	2.49
495074	206305-1	23-37	Reverse	3.89	3.53
495103	206708-1	13-9	Standard	3.25	2.94
495058	206837-1	23-24	Standard	3.65	3.48
421374	211399-1	13-7	Standard	3.05	2.77
495082	206060-1	11-4	Standard	2.45	2.33

### Series 2 — High density applications

- Voltage rating: 250V (UL) • Current: 7.5A max.
- Housing: thermoplastic black, UL94V-0 rated
- Feed thru contact: copper alloy, plated gold over nickel • 0.40" (1.02mm) pin diameter
- Max. wire insulation diameter: 0.068"
- Accepts size 20DF or 20DM crimp snap-in contacts

#### Square Flange Receptacles with Mounting Holes

Part No.	Product No.	Arr.	Sex	1	10
495437	205841-1	11-8	Standard	\$3.75	\$3.15
495445	206436-1	11-9	Standard	3.69	3.17

#### Plugs

495381	205838-1	11-8	Standard	\$4.45	\$4.02
495365	206039-1	17-28	Reverse	4.49	4.19
495357	206434-1	11-8	Reverse	4.09	3.77
495390	206485-1	11-9	Standard	4.45	3.99

### Series 3 — Low-density power applications

- Accepts type XII power contacts; can carry up to 25A per contacts, accommodates 16-10 AWG
- Housing: thermoplastic black, UL94V-0 rated

#### Square Flange G with Mounting Holes

Part No.	Product No.	Arr.	Sex	1	10
495550	206036-2	17-3	Standard	\$2.75	\$2.51

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend
New Sale Lower\$ QtySave

### Series 3 — Low-density power applications (Cont.)

#### Plugs

Part No.	Product No.	Arr.	Sex	1	10
495517	206037-2	17-3	Standard	\$3.59	\$3.29

#### Contacts

- Crimp type except for \*P/N 526424
- Contact body – brass or phosphor bronze
- Finish:
  - A: 30µ" gold over nickel
  - B: Tin-lead
  - C: 15µ" gold over nickel
  - D: 50µ" gold over nickel
  - E: Silver plated
  - F: gold flash over nickel

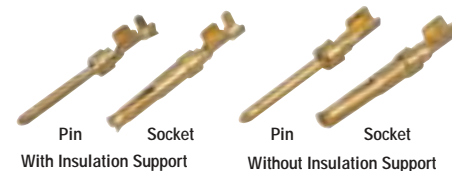
#### Type III+ Snap-In Crimp Pins w/ Retention Spring

Part No.	Product No.	AWG	Finish	Type	1	100
526424	66180-1	18-16	A	Pin*	\$.90	\$.70
526432	66181-1	18-16	A	Socket	.68	.63
526459	66103-3	24-20	C	Pin	.33	.295
526563	1-66103-5	24-20	B	Pin	.34	.303
526361	1-66103-7	24-20	A	Pin	.49	.39
526379	66105-3	24-20	C	Socket	.42	.40
526504	1-66105-6	24-20	A	Socket	.40	.304
526475	1-66360-1	18-14	A	Socket	.60	.49
526441	1-66361-1	18-14	A	Pin	.41	.33

#### Type XII, Precision Formed Snap-In Crimp Pins

- Material: copper
- Assist spring

Part No.	Product No.	AWG	Finish	Type	1	10
527363	66740-6	16-12	D	Socket	\$6.99	\$5.73
526601	66261-4	16-12	E	Pin	2.85	2.32



#### Size 20DF Contacts

- Material: brass
- Prepackaged: please order in increments of 10

Part No.	Product No.	AWG	Finish	Type	10	100
223108	66507-9	28-24	A	Pin	\$.168	\$.158
527531	66505-9	28-24	A	Socket	.15	.136
223095	1-66507-0	28-24	F	Pin	.093	.084
223221	1-66505-0	28-24	F	Socket	.18	.12
223247	745253-6	26-22	A	Socket	.175	.127
223191	66506-9	24-20	A	Pin	.122	.108
223298	66504-9	24-20	A	Socket	.17	.15
223167	1-66506-0	24-20	F	Pin	.139	.129
223255	1-66504-0	24-20	F	Socket	.17	.15

† with insulation supports

**AMP**

## CPC Accessories

### Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated

Part No.	Product No.	Shell Size	Cable O.D. (max.)	1	10
494047	206062-3	28	.329"	\$2.95	\$2.72
494039	206062-1	28	.329"	2.75	2.66
494063	206070-1	17	.453"	2.85	2.75
493992	206322-1	17	.703"	4.15	3.39
494055	206966-1	13	.453"	2.89	2.62
493984	206358-1	11	.453"	2.99	2.50

### Self Centering Cable Clamp

Used in applications where strain relief protection is required and the cable or wire bundle is large and/or stiff.

- Material: black thermoplastic, UL94V-0 rated

Part No.	Product No.	Shell Size	1	10
494021	207774-1	23	\$4.69	\$4.03

### Internal Cable Boot

Provide strain relief capabilities for jacketed cables in applications where aesthetic appearance is essential.

- Shell size: 11

Prepackaged: please order in increments of 10

Part No.	Product No.	Description	10	100
493941	207489-1	Cable boot	\$2.04	\$1.90

## AMPLIMITE™ D-Sub Retainers & Screw Locks

### Female Screw Locks for Metal Shell and All Plastic Connectors (HDE/HDF/HDP)



- Cold rolled steel, zinc plated

For HD All Plastic Plugs & Receptacles with Integral Stand-Offs

- Thread length: 0.560"

Part No.	Product No.	Finish	Thread Size	1	10
613827	207719-1	Yellow	4-40	\$1.05	\$.93
525501	747223-3	Clear	2-56	2.59	2.25

### Low Profile Screw Retainer Kit (HDF)

- Cold rolled steel, zinc plated

Part No.	Product No.	Description	1	10
614184	746881-1	Male retainer kit	\$1.41	\$1.26

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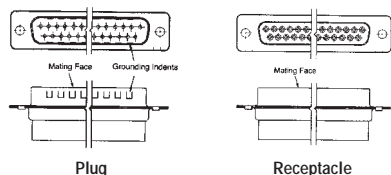
## AMP

### D-Subminiature Connectors

- Dielectric withstanding voltage: 1000VAC (one minute)
- Nylon, flame retardant, 94V-0 rated, glass filled
- Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes
- Insulation resistance: 5000MΩ
- UL/CSA recognized and certified

#### Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



#### Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222640	205204-1	9	Plug .....	\$ .80	\$ .72	\$ .68
222658	205206-1	15	Plug .....	1.16	1.00	.80
222691	205203-1	9	Receptacle	1.07	.96	.75
222703	205205-1	15	Receptacle	1.01	.91	.72
222711	205207-1	25	Receptacle	.87	.79	.74
222738	205211-1	50	Receptacle	2.45	2.04	1.88

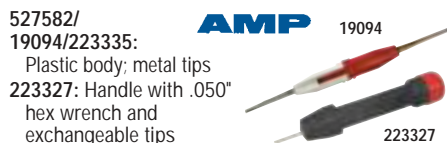
#### Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222754	205204-3	9	Plug .....	\$1.49	\$1.19	\$1.07
222762	205206-2	15	Plug .....	1.29	1.16	1.10
222789	205210-2	37	Plug .....	2.25	1.98	1.49
222797	205204-4	9	Plug*	.83	.75	.57
222818	207464-2	25	Plug*	.65	.59	.55
222826	205210-3	37	Plug*	1.43	1.17	1.07
222834	205212-3	50	Plug*	1.46	1.32	1.25
222842	205203-3	9	Recept.	.68	.56	.51
222914	205205-2	15	Recept.	.62	.57	.54
222922	207463-1	25	Recept.	.74	.67	.63

\* With grounding indents Blue Part No. = Limited Quantity Available

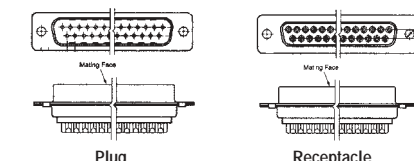
### D-Sub Pin Insertion/Extraction Tools



Part No.	Description	1	10
19094	Red/white plastic body .....	\$2.89	\$2.57
527582	AMP# 91067-1 .....	6.89	6.55
223335	AMP# 91067-2 .....	5.65	5.37
223327	AMP# 91285-1 .....	19.99	18.99

#### Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solder wicking contact design



#### Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222957	747904-4	9	Plug .....	\$2.19	\$1.83	\$1.46
222965	747908-4	15	Plug .....	3.18	2.63	2.10
222973	747912-4	25	Plug .....	4.43	3.72	2.99
222981	747916-4	37	Plug .....	6.35	5.27	4.22
223036	747905-4	9	Receptacle	2.65	2.23	1.76
223044	747913-4	25	Receptacle	4.45	3.99	3.64

#### Tin-Plated Shell

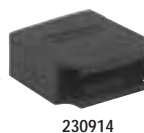


Part No.	Product No.	Cont.	Description	1	10	100
222990	747904-2	9	Plug .....	\$1.79	\$1.73	\$1.64
223001	747908-2	15	Plug .....	2.87	2.69	2.44
223010	747912-2	25	Plug .....	3.89	3.27	2.61
223028	747916-2	37	Plug .....	4.29	3.99	3.70
223052	747905-2	9	Receptacle	2.35	2.09	1.60
223061	747909-2	15	Receptacle	4.14	3.59	3.06
223079	747913-2	25	Receptacle	4.09	3.69	2.72
223087	747917-2	37	Receptacle	5.09	4.59	4.35

## AMP

### Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc

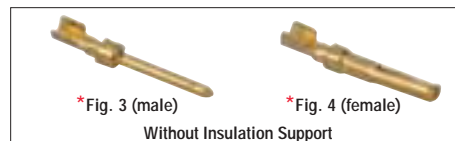


Part No.	Product No.	Positions	1	10	100
230893	205729-1	9	\$2.25	\$1.84	\$1.69
230906	205730-1	15	2.63	2.57	2.42
230914	205718-1	25	2.19	2.00	1.89
230922	205731-1	37	3.19	2.66	2.46
230931	205732-1	50	2.55	2.15	1.61

## AMP

### D-Sub Contacts

- Pin material: brass;
- socket material: phosphor bronze
- Contact plating
- \*A: Select – gold flash over nickel on entire contact, with additional gold (0.000030") on mating end;
- \*B: gold flash over nickel on entire contact;
- \*C: gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- Minimum order 10 pieces



#### Male Crimp Contacts (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223095	1-66507-0	1B	28-24	\$ .093	\$ .084	\$ .073
223124	66682-4	1A	28-24	.22	.19	.176
223108	66507-9	1A	28-24	.168	.158	.149
223132	745254-7	1B	26-22	.30	.27	.26
223167	1-66506-0	1B	24-20	.139	.129	.119
223175	205202-7	3B	24-20	.314	.297	.277
223183	5-66506-9	1C	24-20	.21	.15	.13
223191	66506-9	1A	24-20	.122	.108	.082

#### Female Crimp Contacts (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221	1-66505-0	2B	28-24	\$ .18	\$ .12	\$ .09
223239	66683-4	2A	28-24	.178	.139	.132
223247	745253-6	2A	26-22	.175	.127	.123
223255	1-66504-0	2B	24-20	.17	.15	.11
223263	205201-7	4B	24-20	.15	.113	.147
223271	5-66504-7	2C	24-20	.168	.145	.123
223280	205201-5	3A	24-20	.41	.33	.25
223298	66504-9	2A	24-20	.17	.15	.13

#### Male Solder Contact (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982	66570-3	5A	28-24	\$ .231	\$ .222	\$ .218

#### Female Solder Contact (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319	66569-3	6A	18 (max.)	\$ .225	\$ .18	\$ .162

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For thousands of additional AMP connectors visit our website today.

## AMP AMPLIMITE™ D-Sub Connectors

### HD-20 Right Angle PCB Mount 0.318" Setback



- Housing: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated • Lead length: 0.125"
- Lead diameter: 0.026" • Lead spacing: 0.108"
- Socket plating: A: 30µ" gold mating end, tin-lead terminating end, nickel under plated; B: gold flash mating end, tin-lead terminating end, nickel under plated

#### Without board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	10
614125	745781-4	A	9	F	\$1.95	\$1.74
614248	745250-4	A	9	M	2.19	2.00
614141	745783-4	A	25	F	2.85	2.45

#### With board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	10
614504	747844-4	A	9	F	\$2.05	\$1.91
614441	747840-4	A	9	M	1.45	1.29
614539	747845-4	A	15	F	1.79	1.65
614467	747841-4	A	15	M	2.19	1.98
614555	747846-4	A	25	F	2.35	2.33
614475	747842-4	A	25	M	3.25	2.92
614547	747846-3	B	25	F	2.55	2.15

### HDE-20 Metal Shell IDC Connectors

- Front shell: steel, tin plated
- Contacts: phosphor bronze
- Plating: 30µ" gold on mating end tin-lead on termination end, with contact nickel underplated
- Contact identification No. 2 for 26-22AWG



Part No.	Product No.	Positions	1	10	100
614070	747491-2	9	\$2.35	\$1.91	\$1.67

### HDF-20 Low Profile Metal Shell (For Round Conductor Flat Ribbon Cable)



- Housing cover and cable stabilizer: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated
- Contacts: phosphor bronze with 30µ" gold on mating end, 100µ" bright tin-lead terminating end, nickel underplated

#### With standard mounting holes

Part No.	Product No.	Pins	Gender	1	10	100
614328	747303-4	9	F	\$4.25	\$3.80	\$3.59
614361	747306-4	9	M	3.95	3.90	3.75
614310	747303-3	15	F	5.29	4.53	4.20
614352	747306-3	15	M	4.49	4.45	4.35
614301	747303-2	25	F	7.25	6.15	5.69
614344	747306-2	25	M	7.09	6.33	5.56
614299	747303-1	37	F	8.05	7.21	6.90
614336	747306-1	37	M	8.05	7.21	6.80

#### Thermoplastic body w/ standard mounting holes

Part No.	Product No.	Pins	Gender	1	10
614387	747318-4	9	F	\$3.99	\$3.49
614408	747321-4	9	M	4.39	3.75
614379	747318-2	25	F	8.25	5.04

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## AMP AMPLIMITE™ D-Sub Connector Accessories

- Die cast shield material and finish: zinc alloy, plated bright nickel over bright copper
- Plastic shield: thermoplastic black
- 4-40 fillister head screws & hex nuts: steel, zinc plated
- 4-40 mounting screws: steel zinc plated
- Jackscrews: stainless steel, passivated



#### Die cast cable clamps

Part No.	Product No.	Cable (O.D) max.	1	10
614037	745171-2	0.200"	\$5.45	\$5.02

#### Jackscrews

Part No.	Product No.	Thread Size	1	10
525544	747784-8	4-40	\$4.79	\$4.70
614424	747784-3	4-40	1.89	1.73

#### Spring Latch

- Material: stainless steel (for use with HDE and HDP metal shell)

Part No.	Product No.	1	10
614117	745779-2	\$0.99	\$0.90

## Cinch D-Sub Metal Shells

- Insulator material: glass filled polyester (black)
- UL94V-0 rated • Current: 5A
- Insulation resistance: 5000MΩ max. (initial)
- Durability: 500 mating cycles

### Right Angle w/ 4-40 Threaded Inserts

- Contact material: socket – phosphor bronze (stamped); plugs – brass (stamped)
- Contact plating: gold flash, tin/lead on tails over nickel
- Metal shell: steel w/ tin plating (grounding indents on plugs)
- Contact resistance: 15mΩ max.
- 0.318" foot print • Boardlock: brass w/ tin plating
- Female screwlocks: brass w/ nickel plating
- Withstanding voltage: 1250V<sub>RMS</sub>



Part No.	Product No.	Positions	Gender	1	25
446483	DBKL-25SAT-E25	25	F	\$1.05	\$0.96

### D Series w/ Mounting Holes

- Connector shell: steel w/ zinc plating, yellow chromate finish or tin plating (grounding indents on plugs)
- 4-40 clinch nut: steel w/ cadmium plating and yellow chromate finish
- Contact material: copper alloy
- Dual float bushing: stainless steel, passivated
- Withstanding voltage: 1250V<sub>RMS</sub>
- Contact resistance: 2.7mΩ max.
- Contact plating: stamped contacts – gold flash

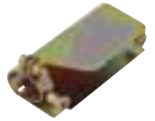


Part No.	Product No.	Positions	Gender	1	25
458118	DA-15P	15	M	\$3.39	\$2.98
458142	DA-15S	15	F	2.39	2.10
458126	DB-25P	25	M	2.05	1.95
458151	DB-25S	25	F	3.19	2.83

## Cinch Metal D-Sub Junction Shell

### Right Angle Clamp

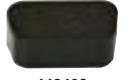
- Shell material: zinc plated low carbon steel with yellow chromate finish
- Clamp & screw: zinc plated steel with yellow chromate finish
- Stop nut: zinc plated brass w/ yellow chromate finish



Part No.	Product No.	Shell Size	Std. Density	1	25
446871	DB-19977-2	B	25	\$3.49	\$3.25

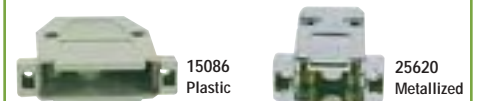
## Cinch D-Sub Dust Caps

- For use with Cinch D-Sub connectors
- Protects connector contacts when not mated
- Material: polyethylene, black



Part No.	Product No.	Std. Density	Gender	1	25
448411	DE-59-20	9	Socket	\$1.15	\$1.10
448403	DE-60-20	9	Plug	1.38	1.25
448382	DB-60-20	25	Plug	.95	.91

## Jameco ValuePro D-Sub Connector Hoods



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)  
MD Series: metal coated plastic hood w/ strain relief  
MH Series: die-cast metal hood with strain relief

Part No.	Cross Ref.	Connector	1	10	100	1000
15722	DB9H	9-pin	\$.55	\$.51	\$.44	\$.39
25620	MDB9H	9-pin	.69	.56	.445	.399
147741	MHDB9	9-pin	1.59	1.43	1.27	1.10
15019	DA15H	15-pin	.69	.64	.57	.497
25567	MDA15H	15-pin	.75	.56	.456	.393
15086	DB25H	25-pin	.54	.468	.42	.384
25604	MDB25H	25-pin	.75	.60	.509	.424
15106	MHDB25	25-pin	1.55	1.33	1.22	1.14
15457	DC37H	37-pin	.71	.66	.54	.468
25611	MDC37H	37-pin	.85	.79	.68	.509
15660	DD50H	50-pin	1.03	.88	.78	.67

## Jameco ValuePro 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



Part No.	Description	1	10	100	500
34091	25-pin, plastic dual	\$.95	\$.85	\$.75	\$.59

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## D-Subminiature Connectors

Quantity SAVE

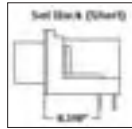
EXCLUSIVE

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)

- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

JAMECO ValuePro

### Right Angle PC Mount



#### Metal .318" Set Back

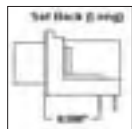
- Short style
- Lead length: .138"
- Lead spacing: .115"
- Current rating: 1A



15150

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100	500
104943	DB9P318	9	M	\$ .61	\$ .56	\$ .50	\$ .422
104952	DB9S318	9	F	... .66	.61	.54	.495
71125	DA15P318	15	M	... .79	.66	.61	.544
77956	DA15S318	15	F	... .79	.69	.65	.45
168743	HDDB15S318	15*	M	... .69	.62	.56	.51
71466	HDDB15S318	15*	F	... .59	.53	.48	.39
15150	DB25P318	25	M	... .89	.72	.61	.494
15182	DB25S318	25	F	1.00	.89	.81	.74
265439	DSUB-25F	25	F	... .94	.84	.67	.51
71707	DC37P318	37	M	1.05	.94	.85	.70
78183	DC37S318	37	F	1.69	1.40	1.02	.73

\* High Density



#### Metal .590" Set Back

- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Long style



104978

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
104969	DB9P590	9	M	\$ 1.07	\$ .90	\$ .78
104978	DB9S590	9	F	... .96	.85	.81
104994	DA15S590	15	F	... 1.19	1.03	.71
105006	DB25P590	25	M	... 1.01	.91	.81
105013	DB25S590	25	F	... 1.25	1.12	.99

JAMECO ValuePro

### IDC Ribbon Cable

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temperature range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see cross ref. no.)



12432

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
109226	MDB9P	9	M	\$ 1.49	\$ 1.38	\$ 1.21
12503	CDB9P	9	M	... 2.49	1.79	1.59
109217	MDB9S	9	F	... 1.69	1.33	1.17
12521	CDB9S	9	F	... 2.79	2.51	2.24
117381	MDA15P	15	M	... 1.98	1.59	.88
12299	CDA15P	15	M	... 1.85	1.47	.88
116011	MDA15S	15	F	... 1.55	1.32	.99
12319	CDA15S	15	F	... 1.79	1.50	.73
115983	MDB25P	25	M	... 2.65	2.38	1.99
12335	CDB25P	25	M	... 1.99	1.79	1.49
115976	MDB25S	25	F	... 2.39	2.14	1.80
12432	CDB25S	25	F	... 2.29	2.11	1.64
115992	MDC37P	37	M	... 2.49	2.24	1.61
12466	CDC37P	37	M	... 3.71	3.52	3.29
116003	MDC37S	37	F	... 4.19	3.79	3.42
12483	CDC37S	37	F	... 3.89	3.32	2.50

† Requires flat cable w/ .0625" centers

JAMECO ValuePro

### Crimp-Type Connectors & Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use 99443, below to crimp 43377, 43369



180890



38771



43369

\* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
73189	DB9 M housing	... .49	.39	.31	.19
73197	DB9 F housing	... .49	.39	.31	.19
73201	DA15 M housing	... .71	.64	.58	.516
73219	DA15 F housing	... .75	.68	.60	.528
180882	HDDB15 M housing	... 1.31	1.18	.94	.70
180890	HDDB15 F housing	... 1.01	.89	.81	.61
38789	DB25 M housing	... .68	.528	.432	.252
38771	DB25 F housing	... .55	.44	.31	.21
43377	M crimp pin	...	.10	.09	.08
43369	F crimp pin	...	.08	.07	.06
185421	M crimp pin (180882)	... *	.055	.045	.04
185412	F crimp pin (180890)	... *	.055	.05	.04
19094	Insert/extract. tool for above pins (HT101)	...	2.89	2.57	

\* High Density

JAMECO ValuePro

### Metal Solder-Cup

- Compatible with 24 AWG communications pg 123, and 22 AWG solid cable, pg 122



203799

Part No.	Contacts	Gender	1	10	100	1000
15748	9R	M	... .61	.47	.38	.25
15771	9	F	... .66	.55	.49	.35
15078	15HD	M	... .81	.70	.58	.37
164823	15HD	F	... .80	.70	.60	.39
15035	15R	M	... .59	.532	.456	.315
15052	15	F	... .65	.535	.426	.262
15115	25R	M	... 1.08	.97	.86	.77
15157	25	F	... .89	.80	.69	.61
203799	26HD	M	... .65	.58	.52	.49
203782	26HD	F	... .75	.68	.61	.58
15473	37R	M	... 1.09	.92	.86	.529
15500	37	F	... 1.43	1.26	1.02	.59
15676	50R	M	... 1.98	1.79	1.62	1.19
15691	50	F	... 1.89	1.48	1.41	1.05

### Other Manufacturers — Great Deals

482687	25	M	... .80	.75	.57	.43
482708	25	F	... .80	.72	.62	.45
639630	37	M	... .89	.80	.64	.49
482724	37	F	... .89	.80	.64	.48
482732	50	M	... 1.49	1.34	1.07	.81
482741	50	F	... 1.49	1.34	1.07	.81

\* High Density

JAMECO ValuePro

### Metal Straight PC Mount

- Non-removable contacts
- Operating temperature: -65° to +250°F
- Current rating: 5A
- 125 V<sub>RMS</sub>

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
111692	DB9PCB	9	M	... .65	\$ .502	\$ .357
15781	DB9PCB	9	F	... .68	.56	.39
176760	DA15PCB	15	M	... .49	.44	.39
176751	DA15PCB	15	F	... .59	.504	.378
15123	DB25PCB	25	M	... .75	.65	.57
15166	DB25PCB	25	F	... .89	.81	.47
180021	DC37PCB	37	F	... .96	.90	.68

## 4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



\* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
196293	.252"L jack screw	... \$ .27	\$ .21	\$ .12	\$ .08
169931	.275"L jack screw	... *	.15	.112	.084
172603	.315"L jack screw	... *	.121	.101	.076
102816	.435"L jack screw	... .69	.65	.59	.53
108987	.515"L jack screw	... 1.05	.96	.87	.77
125015	4-40 x 1.65"L plastic beige thumbscrew	... .39	.35	.32	.25
175636	.187"L standoff	... .24	.21	.15	.10
102795	.236"L (6mm) stdf	... .30	.263	.188	.125

### 4-40 Screw Sets



- 102808: 4-40 screw (.385"L) and retainer set
- 16548: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

\* Prepackaged: please order in increments of 10

Part No.	Description	10	100	1000
102808	Screw/retainer set	... \$ .39	\$ .35	\$ .30
16548	Screw/nut set	... .74	.60	.402

## D-Sub Connector Jack Screws

- 4-40 threaded
- Steel, zinc plated
- Length: .312"

NEW



1582508

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Description	5	50
1582209	7230	Gold color	... \$ .157	\$ .147
1582508	7230-5R	Clear chromate	... .14	.127

## Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return
- Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99443	HT202A	... \$ .949	\$ 8.55	\$ 7.69	\$ 6.95

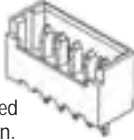
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## .049" (1.25mm) Shrouded Vertical Headers

### Molex 53047 Series Value Equivalence

- Wire to board
- Blade pin
- Friction lock
- Current rating: 1A
- Voltage rating: 125V • UL94V-0 rated
- Withstanding voltage: 250VAC/1 min.
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing material: PA polyimide (Nylon) 6/6
- Contact material: phosphor bronze
- Contact and tail plating: tin



420363

**Quantity SAVE**

Part No.	Cross Ref. No.	Circuits	1	10	100
420339	53047-0210	2 ...	\$ .27	\$ .23	<b>(\$ .173)</b>
420347	53047-0310	3 .....	.37	.315	<b>(.233)</b>
420355	53047-0410	4 .....	.38	.323	<b>(.242)</b>
420363	53047-0510	5 .....	.46	.391	<b>(.293)</b>
420371	53047-0610	6 .....	.52	.442	<b>(.332)</b>
420380	53047-0710	7 .....	.67	.57	<b>(.425)</b>
420398	53047-0810	8 .....	.72	.61	<b>(.453)</b>
420401	53047-0910	9 .....	.80	.68	<b>(.50)</b>
420419	53047-1010	10 .....	.88	.74	<b>(.545)</b>

## .049" (1.25mm) Shrouded Right Angle Headers

### Molex 53048 Series Value Equivalence

- Wire to Board
- Blade pin
- Friction lock
- Current rating: 1A
- Voltage rating: 125V
- UL94V-0 rated
- Withstanding voltage: 250VAC/1 min.
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing material: PA polyimide (Nylon) 6/6
- Contact material: phosphor bronze
- Contact plating: tin
- Pin size: blade



420460

**Quantity SAVE**

Part No.	Cross Ref. No.	Circuits	1	10	100
420427	53048-0210	2 ...	\$ .35	\$ .298	<b>(\$ .216)</b>
420435	53048-0310	3 .....	.43	.366	<b>(.264)</b>
420443	53048-0410	4 .....	.50	.425	<b>(.31)</b>
420451	53048-0510	5 .....	.59	.502	<b>(.377)</b>
420460	53048-0610	6 .....	.51	.434	<b>(.326)</b>
420478	53048-0710	7 .....	.63	.53	<b>(.39)</b>
420486	53048-0810	8 .....	.79	.67	<b>(.50)</b>
420494	53048-0910	9 .....	.88	.75	<b>(.539)</b>
420507	53048-1010	10 .....	.98	.83	<b>(.62)</b>

## Hand Crimp Tools

These tools are designed to crimp terminals, strip and cut wires, and cut bolts. For Molex crimp pin terminals with .062" & .093" diameters and KK® series on page 145.



**308030:** Cuts & strips 14-24 AWG wires

**227491:** Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030	W-HT-1919	8.3"L	Red .....	\$14.99	\$13.99
227491	W-HT-1921	8.3"L	Yellow ...	14.99	13.99

## .049" (1.25mm) Pitch Housing

### Molex 51021 Series Value Equivalence

- Wire to board or wire to wire
- UL94V-0 rated
- Current rating: 1A
- Voltage rating: 125V
- Contact resistance: 20mΩ
- Insulation resistance: 100MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.



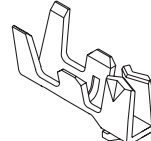
420321

Part No.	Cross Ref. No.	Circuits	1	10	100
420241	51021-0200	2 ...	\$ .23	\$ .178	\$ .123
420259	51021-0300	3 .....	.20	.162	<b>(.122)</b>
420267	51021-0400	4 .....	.22	.187	<b>(.14)</b>
420275	51021-0500	5 .....	.29	.247	<b>(.185)</b>
420283	51021-0600	6 .....	.32	.27	<b>(.201)</b>
420291	51021-0700	7 .....	.36	.306	<b>(.228)</b>
420304	51021-0800	8 .....	.35	.298	<b>(.224)</b>
420312	51021-0900	9 .....	.42	.357	<b>(.268)</b>
420321	51021-1000	10 .....	.45	.383	<b>(.287)</b>

## .049" (1.25mm) Pitch Crimp Terminals

### For 51021 Series Value Equivalence

- Female crimp pins
- 668457: 26-28AWG;
- 668473: 28-32AWG
- Contact material: phosphor bronze
- Pre-plated
- Plating contact: 0.9μm (35μ") tin



Part No.	Product No.	1	10	100	500
668457	50079-8100	.....	\$ .20	\$ .113	\$ .107 \$ .10
668473	50058-8100	.....	.20	.158	.138 .128

## .079" (2.0mm) Dual Row Vertical Headers

### Molex 87758 Series Value Equivalence

- Wire to board or wire to wire
- UL94V-0 rated
- Current rating: 1A
- Voltage rating: 125V
- Contact resistance: 20mΩ
- Insulation resistance: 100MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.



378581

Part No.	Cross Ref. No.	Circuits	1	10	100
378521	87758-0416	4 ...	\$ .30	\$ .255	<b>(\$ .191)</b>
378530	87758-0616	6 .....	.67	.57	<b>(.41)</b>
378548	87758-0816	8 .....	.68	.57	<b>(.428)</b>
378556	87758-1016	10 .....	.58	.49	<b>(.368)</b>
378564	87758-1216	12 .....	.72	.61	<b>(.458)</b>
378572	87758-1416	14 .....	.75	.64	<b>(.479)</b>
378581	87758-1616	16 .....	.78	.66	<b>(.495)</b>
378599	87758-1816	18 .....	.78	.66	<b>(.50)</b>
378601	87758-2016	20 ...	1.15	.96	<b>(.72)</b>
378610	87758-2216	22 ...	1.02	.87	<b>(.65)</b>
378628	87758-2416	24 ...	1.05	.90	<b>(.68)</b>
378636	87758-2616	26 ...	1.22	1.04	<b>(.78)</b>
378652	87758-3016	30 ...	1.34	1.14	<b>(.86)</b>
378708	87758-4016	40 ...	1.65	1.40	<b>(1.05)</b>
378724	87758-4416	44 ...	1.79	1.53	<b>(1.15)</b>
378759	87758-5016	50 ...	1.89	1.63	<b>(1.22)</b>

## .079" (2.0mm) Pitch Milli-Grid Right Angle Headers

### Molex 87760 Series Value Equivalence

- Current rating: 2A
- Voltage rating: 125V
- Under plating: nickel
- UL94V-0 rated
- Withstanding voltage: 500VAC
- Contact resistance: 25mΩ max.
- Insulation resistance: 1000MΩ
- Housing material: PCT Polyester, glass filled
- Contact: phosphor bronze
- Contact plating: 0.38μm (15μ") gold selective
- Plating tail: 1.9μm (75μ") tin
- Pin size: 0.50mm (0.20") square



378804

Part No.	Cross Ref. No.	Circuits	1	10	100
378775	87760-0616	6 ...	\$ .46	\$ .435	\$ .343
378783	87760-0816	8 .....	.49	.418	.336
378804	87760-1216	12 .....	.64	.544	<b>(.41)</b>
378812	87760-1416	14 .....	.67	.57	<b>(.493)</b>
378821	87760-1616	16 ...	1.06	.90	.72
378839	87760-1816	18 .....	.90	.77	<b>(.58)</b>
378847	87760-2016	20 .....	.90	.77	<b>(.58)</b>

## .079" (2.0mm) Pitch Milli-Grid Housing

### Molex 51110 Series Value Equivalence

- Housing: polyester, glass filled
- Temperature: -55°C to +105°C
- Vertical wire entry angle
- Dual row



377991

### w/o Polarizing Key

Part No.	Cross Ref. No.	Circuits	1	10	100
377975	51110-0450	4 ...	\$ .25	\$ .158	\$ .128
377983	51110-0650	6 .....	.26	.166	.16
377991	51110-0850	8 .....	.27	.173	<b>(.13)</b>
378003	51110-1050	10 .....	.29	.19	<b>(.143)</b>
378011	51110-1250	12 .....	.31	.179	<b>(.134)</b>
378020	51110-1450	14 .....	.36	.30	<b>(.225)</b>
378038	51110-1650	16 .....	.44	.28	<b>(.21)</b>
378046	51110-1850	18 .....	.43	.27	<b>(.203)</b>
378054	51110-2050	20 .....	.52	.34	<b>(.255)</b>
378062	51110-2250	22 .....	.58	.52	<b>(.347)</b>
378071	51110-2450	24 .....	.43	.366	<b>(.275)</b>
378089	51110-2650	26 .....	.68	.426	<b>(.32)</b>
378097	51110-2850	28 .....	.63	.396	.32
378100	51110-3050	30 .....	.54	.46	<b>(.345)</b>

### w/ Polarizing Key

Part No.	Cross Ref. No.	Circuits	1	10	100
378142	51110-0851	8 ...	\$ .28	\$ .17	<b>(\$ .128)</b>
378151	51110-1051	10 .....	.21	.17	<b>(.128)</b>
378169	51110-1251	12 .....	.31	.17	<b>(.128)</b>
378177	51110-1451	14 .....	.25	.213	<b>(.16)</b>
378185	51110-0851	16 .....	.30	.255	<b>(.191)</b>
378193	51110-1051	18 .....	.49	.429	<b>(.292)</b>
378206	51110-0851	20 .....	.63	.53	<b>(.38)</b>
378214	51110-0851	22 .....	.58	.519	<b>(.347)</b>
378222	51110-0851	24 .....	.63	.56	<b>(.374)</b>
378231	51110-0851	26 .....	.64	.61	<b>(.444)</b>
378249	51110-0851	28 .....	.50	.425	<b>(.319)</b>
378257	51110-0851	30 .....	.90	.529	<b>(.397)</b>

## .079" (2.00mm) Pitch Micro SPOX™ Header

### Vertical with Friction Lock

- Wire to board
- Single row
- Current: 1A
- UL94V-0 Rated
- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.
- Withstanding voltage: 500VAC/1 min.
- Housing: PA Polyamide (nylon) 6/6
- Contact: brass, tin plated, copper underplating



Part No.	Product No.	Positions	1	10	100
520786	10-32-1023	2 .....	\$.33	\$.297	\$.271

## .079" (2.00mm) Pitch Milli-Grid™ Crimp Terminal

For 51110 Series Value Equivalence

- Female crimp pin
- Lead free
- 24-30AWG
- Contact material: phosphor bronze
- Plating contact: 0.38μm (15μ") gold
- Under plating: nickel



Part No.	Product No.		1	10	100	500
668465	50394-8100	.....	\$ .20	\$ .135	\$ .103	\$ .095

## .062" (1.57mm) & .093" (2.36mm) Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating
- Prepackaged: please order in increments of 10

### Crimp-Type Contacts



#### .062" (1.57mm)

Part No.	Product No.	Gender	AWG	10	100	1000
224565	02-06-2103	♂ M	18-24	\$.18	\$.057	\$.038
224581	02-06-2132	♂ M	24-30	\$.188	\$.05	\$.04
224557	02-06-1103	♀ F	18-24	\$.18	\$.057	\$.038
224573	02-06-1132	♀ F	24-30	\$.07	\$.056	\$.038

#### .093" (2.36mm)

Part No.	Product No.	Gender	AWG	10	100	1000
224207	02-09-2118	♂ M	18-22	\$.19	\$.06	\$.04
224223	02-09-2103	♂ M	14-20	\$.18	\$.059	\$.04
224215	02-09-1119	♀ F	18-22	\$.20	\$.07	\$.04
224231	02-09-1104	♀ F	14-20	\$.18	\$.059	\$.042

### Solder-Tail Contacts



#### .093" (2.36mm)

Part No.	Product No.	Gender	10	100	1000
224240	02-09-2133	♂ Male	\$.09	\$.081	\$.06
224258	02-09-1134	♀ Female	\$.20	\$.14	\$.09

More at [www.Jameco.com](http://www.Jameco.com)

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## .062" (1.57mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Polarized housing assures proper mating
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C
- Housing: nylon; UL94V-2
- Current: 5.0A

### Plugs

Quantity SAVE



224485



224522



230084

### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224485	03-06-2023	♂ * 2 .....	\$.30	\$.18	\$.15
224493	03-06-2032	♂ * 3 .....	\$.31	\$.19	\$.16
224506	03-06-2042	♂ * 4 .....	\$.24	\$.223	\$.206
224514	03-06-2044	♂ * 4 .....	\$.26	\$.202	\$.189
224522	03-06-2061	♂ * 6 .....	\$.45	\$.28	\$.25
224549	03-06-2122	♂ * 12 .....	\$.52	\$.30	\$.25

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948	03-06-2024	♂ * 2 .....	\$.37	\$.308	\$.223
229964	03-06-2033	♂ * 3 .....	\$.18	\$.129	\$.107
230041	03-06-2062	♂ * 6 .....	\$.47	\$.26	\$.24
230084	03-06-2121	♂ * 12 .....	\$.28	\$.238	\$.179

\*In-line \*\*Grid

### Receptacles



224442



229956



230092

### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224400	03-06-1023	♂ * 2 .....	\$.33	\$.198	\$.149
224418	03-06-1032	♂ * 3 .....	\$.31	\$.19	\$.16
224426	03-06-1042	♂ * 4 .....	\$.36	\$.28	\$.266
224434	03-06-1044	♂ * 4 .....	\$.39	\$.27	\$.24
224442	03-06-1062	♂ * 6 .....	\$.54	\$.336	\$.30
224451	03-06-1092	♂ * 9 .....	\$.24	\$.21	\$.201
224469	03-06-1122	♂ * 12 .....	\$.52	\$.41	\$.30

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956	03-06-1022	♂ * 2 .....	\$.31	\$.16	\$.14
229972	03-06-1038	♂ * 3 .....	\$.18	\$.135	\$.112
230092	03-06-1121	♂ * 12 .....	\$.36	\$.306	\$.23

\*In-line \*\*Grid

## .093" (2.36mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C
- Housing: nylon; UL94V-2
- Current: 12A per circuit

### Plugs



224071



229825



230181

### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224071	03-09-2022	♂ * 2 .....	\$.30	\$.25	\$.18
224080	03-09-2032	♂ * 3 .....	\$.41	\$.32	\$.21
224098	03-09-2042	♂ * 4 .....	\$.45	\$.22	\$.20
229825	03-09-2049	♂ * 4 .....	\$.46	\$.368	\$.351
224101	03-09-2062	♂ * 6 .....	\$.49	\$.39	\$.29
224119	03-09-2092	♂ * 9 .....	\$.27	\$.261	\$.196
224127	03-09-2121	♂ * 12 .....	\$.42	\$.358	\$.269

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105	03-09-2021	♂ * 2 .....	\$.25	\$.20	\$.15
230148	03-09-2041	♂ * 4 .....	\$.36	\$.238	\$.179
230181	03-09-2061	♂ * 6 .....	\$.42	\$.396	\$.30
462459	03-09-2159	♂ * 15 .....	\$.80	\$.72	\$.62

\*In-line \*\*Grid

### Receptacles



229817



230130



230199

### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224143	03-09-1022	♂ * 2 .....	\$.30	\$.25	\$.18
224151	03-09-1032	♂ * 3 .....	\$.44	\$.25	\$.16
224160	03-09-1042	♂ * 4 .....	\$.46	\$.25	\$.22
229817	03-09-1049	♂ * 4 .....	\$.34	\$.299	\$.257
224178	03-09-1064	♂ * 6 .....	\$.25	\$.228	\$.206
224186	03-09-1094	♂ * 9 .....	\$.83	\$.71	\$.468
224194	03-09-1126	♂ * 12 .....	\$.65	\$.61	\$.457

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113	03-09-1027	♂ * 2 .....	\$.23	\$.188	\$.168
230130	03-09-1081	♂ * 3 .....	\$.28	\$.217	\$.163
230156	03-09-1041	♂ * 4 .....	\$.27	\$.23	\$.173
230199	03-09-1061	♂ * 6 .....	\$.32	\$.249	\$.187

\*In-line \*\*Grid

## .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

- Voltage: 250VAC
- Temp. range: -40°C to +105°C
- 142181: • Current: 12A
- 3 each 2-pin plugs & receptacles, 8 each female & male contacts
- 142201: • Current: 9A
- 2 each 4-pin plugs & receptacles, 10 each female & male contacts

### Receptacle

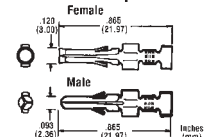


142181

### Plug



### Standard Crimp Contacts



Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Product No.	Description	1	10	50
142181	1545	2-pin kit ..	\$4.95	\$4.49	\$3.95
142201	1490	4-pin kit ..	5.69	5.15	4.65

## .084" (2.13mm) Pin and Socket Connectors

### .084" Molex 42002/42021/42022 Series Value Equivalents

- Intermateable, interchangeable, and intermountable with industry-standard versions
- Circuit ID grooves to reduce assembly errors
- Anti-stress positioning tabs to reduce breakage
- Fully isolated contacts
- Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 2900V (header); 5000V (wire to wire)
- Positive locks
- Material: Nylon 94V-2, white
- Plating: tin
- Voltage: 600V
- Operating temp: -55°C to +105°C
- Contact resistance: 3.5mΩ max.

### Plugs (Fig. 1)

#### Molex 42021 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379241	50-84-1020	1 x 2	13.5	.20	\$.142	\$.107
379250	50-84-1030	1 x 3	13.5	.21	.158	.119
379268	50-84-1040	1 x 4	13.5	.25	.19	.143
379276	50-84-1060	2 x 3	11	... .27	.205	.154
379284	50-84-1090	3 x 3	11	... .28	.221	.166
379292	50-84-1120	3 x 4	11	... .34	.261	.196
379305	50-84-1120	3 x 5	11	... .39	.32	.24

\* Grid layout is rows x columns

### Receptacles (Fig. 2)

#### Molex 42022 Series Value Equivalents

- Mates with series 42021 plugs

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379313	50-84-2020	1 x 2	13.5	.20	\$.142	\$.106
379321	50-84-2030	1 x 3	13.5	.21	.158	.119
379330	50-84-2040	1 x 4	13.5	.25	.19	.144
379348	50-84-2060	2 x 3	11	... .27	.205	.154
379356	50-84-2090	3 x 3	11	... .28	.221	.166
379364	50-84-2120	3 x 4	11	... .34	.261	.196
379372	50-84-2150	3 x 5	11	... .45	.342	.257

\* Grid layout is rows x columns

### Vertical Male Headers (Fig. 3)

#### Molex 42002 Series Value Equivalents

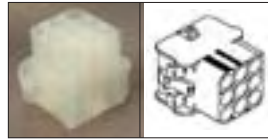
- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379381	10-84-4020	1 x 2	13.5	... .45	\$.332	\$.249
379401	10-84-4030	1 x 3	13.5	... .51	.434	.326
379428	10-84-4040	1 x 4	13.5	... .60	.45	.337
379444	10-84-4060	2 x 3	11	... .62	.60	.45
379461	10-84-4090	3 x 3	11	... .64	.48	.36
379487	10-84-4120	3 x 4	11	... .71	.52	.47
379508	10-84-4150	3 x 5	11	... 1.05	.77	.57
379399	10-84-4022	1 x 2	13.5	... .24	.19	.143
379410	10-84-4032	1 x 3	13.5	... .25	.213	.16
379436	10-84-4042	1 x 4	13.5	... .41	.32	.24
379452	10-84-4062	2 x 3	11	... .62	.47	.35
379479	10-84-4092	3 x 3	11	... .55	.51	.382
379495	10-84-4122	3 x 4	11	... .80	.67	.50
379516	10-84-4152	3 x 5	11	... .99	.73	.55

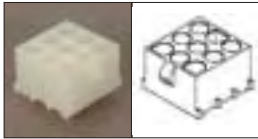
\* Grid layout is rows x columns



379284 (Fig. 1)



379356 (Fig. 2)

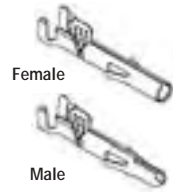


379461 (Fig. 3)

### Contacts

#### Type\*:

- 1: Female
  - 2: Male
- A: Brass  
 B: Phosphor bronze  
 C: Brass standard insertion  
 D: Brass low insertion

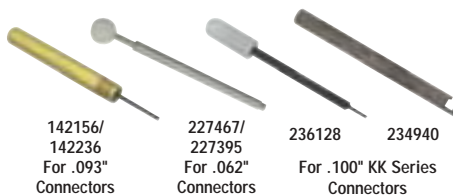


\* Minimum order 10 pieces

Part No.	Cross Ref. No.	AWG	Type*	10	100	500
401331	71T-D524-LP	12-14	1B	\$.06	\$.051	\$.043
379524	71T-S224-LP	16-20	1A	... .075	.064	.048
401306	71T-S224-LP	18-22	1A	... .075	.056	.047
401322	71T-S524-LP	18-22	1B	... .07	.053	.05
401357	70T-D214-LP	12-14	2A	... .087	.071	.05
401373	70T-D214-LP	12-14	2D	... .087	.07	.053
379541	70T-S214-LP	16-20	2C	... .073	.055	.05
398784	70T-S214-LP	16-20	2C	... .087	.07	.058
401349	70T-S214-LP	18-22	2A	... .073	.055	.05

† For 6-15 circuit connectors

## Connector Extraction Tools



Part No.	Product No.	AWG	1	10
142156	W-HT-2285	18-30	... \$14.49	\$13.49
227467	W-HT-2023	18-30	... 11.99	10.99
142236	W-HT-2038	14-30	... 14.49	13.49
227395	W-HT-2054	14-30	... 12.59	11.54
236128	W-HT-1884	22-30	... 9.99	8.99
234940	11-03-0022	22-30	... 14.99	12.99

## .100" (2.54mm) Male Solid Headers (Gold)

- Solder to PC boards for instant plug-in access via shorting blocks, 142
- Insulator: UL94V-0 polyester
- Snap apart to fit your application
- Contact material: phosphor bronze
- Temperature range: -55°C to +120°C

**Quantity SAVE**

- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 155
- Current rating: 1 amp • Contact area: gold

\*Prepackaged: please order in increments of 10

### .100" Right Angle Single Row Male Headers

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
153728	RMH08	8	... \$.49	\$.45	\$.35	\$.29
103271	RMH36	36	... .90	.77	.70	.492

### .100" Right Angle Double Row Male Headers

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
203908	923804DR	4	... \$.38	\$.34	\$.27	\$.20
203917	923806DR	6	... .49	.44	.30	.24
203924	923808DR	8	... .49	.44	.35	.26
203932	923810DR	10	... .69	.62	.56	.46
203941	923812DR	12	... .59	.53	.42	.315
203959	923814DR	14	... .65	.58	.47	.352
203967	923816DR	16	... .78	.71	.64	.516
203975	923818DR	18	... .75	.68	.54	.41
53575	923820DR	20	... .69	.64	.58	.51
53584	923826DR	26	... .75	.65	.531	.375
204020	923832DR	32	... .75	.68	.60	.44
204046	923836DR	36	... .75	.68	.54	.405
53605	923840DR	40	... .89	.79	.60	.53
53612	923850DR	50	... .95	.81	.62	.54
103413	923872DR	72	... 1.15	.99	.89	.75
139563	923880DR	80	... 1.49	1.25	1.15	1.05

### .100" Straight Single Row Male Headers

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
108338	SMH02	2	... *	\$.16	\$.14	\$.13
109576	SMH03	3	... *	.17	.15	.135
117560	SMH04	4	... *	.17	.15	.135
153700	SMH06	6	... *	.17	.15	.135
153702	SMH08	8	... .22	.20	.17	.15
103393	SMH10	10	... *	.18	.14	.10
103377	SMH17	17	... *	.16	.14	.13
103369	SMH20	20	... .30	.27	.248	.227
202825	SMH22	22	... .39	.36	.29	.21
103351	SMH25	25	... *	.266	.223	.17
103342	SMH30	30	... .36	.319	.288	.258
68339	SMH36	36	... .44	.399	.357	.305
160882	SMH40	40	... .57	.52	.47	.42

Continued on next page

Thousands of Molex rectangular connectors available at [www.Jameco.com](http://www.Jameco.com).

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## .100" (2.54mm) Male Solid Headers (Gold)

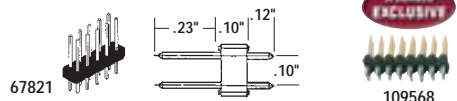
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## .100" (2.54mm) Pitch Crimp Terminal Housing

leoco

## .100" (2.54mm) Pitch Crimp Terminal Housing

### .100" Straight Double Row Male Headers



Part No.	Cross Ref. No.	Contacts	1	10	100	1000
115028	923804DS	4	.....	.....	.....	.....
115035	923806DS	6	.....	.....	.....	.....
109516	923808DS	8	.....	.....	.....	.....
67821	923810DS	10	.....	.....	.....	.....
203810	923812DS	12	.....	.....	.....	.....
118456	923814DS	14	.....	.....	.....	.....
109568	923816DS	16	.....	.....	.....	.....
203828	923818DS	18	.....	.....	.....	.....
53480	923820DS	20	.....	.....	.....	.....
203836	923822DS	22	.....	.....	.....	.....
203844	923824DS	24	.....	.....	.....	.....
203852	923826DS	26	.....	.....	.....	.....
203879	923830DS	30	.....	.....	.....	.....
203861	923832DS	32	.....	.....	.....	.....
53517	923834DS	34	.....	.....	.....	.....
203888	923836DS	36	.....	.....	.....	.....
203895	923838DS	38	.....	.....	.....	.....
53560	923850DS	50	.....	.....	.....	.....
68574	923860DS	60	.....	.....	.....	.....
103405	923872DS	72	.....	.....	.....	.....
117197	923880DS	80	.....	.....	.....	.....

### Other Manufacturers — Great Deals

53495	923826DS	26	.....	.....	.....	.....
53532	923840DS	40	.....	.....	.....	.....

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## .100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color codes strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

Open: open on top to allow for a test point

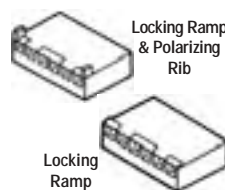
Closed: closed top

119264: 2mm (for disk drives)

- Prepackaged: please order in increments of 10

Part No.	Description	10	100	1000
22203	Top open, black (.100")	.....	.....	.....
119264	Top open, black (2mm)	.....	.....	.....
112425	Top open, blue (.100")	.....	.....	.....
112417	Top open, red (.100")	.....	.....	.....
19141	Top closed, black (.100")	.....	.....	.....
112442	Top closed, blue (.100")	.....	.....	.....
112432	Top closed, red (.100")	.....	.....	.....
152671	Top closed, black (.100")	.....	.....	.....

- Current rating: 3A DC
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/minute
- Housing: nylon 6/6, UL94V-0
- Operating temp.: -40°C to +105°C



### With Locking Ramp and Polarizing Rib

Part No.	Cross Ref. No.	Pos.	1	10	25
675850	22-01-3027	2	.....	.....	.....
675866	22-01-3037	3	.....	.....	.....
675876	22-01-3047	4	.....	.....	.....
675884	22-01-3057	5	.....	.....	.....
675892	22-01-3067	6	.....	.....	.....
675905	22-01-3077	7	.....	.....	.....
675913	22-01-3087	8	.....	.....	.....
675921	22-01-3097	9	.....	.....	.....
675930	22-01-3107	10	.....	.....	.....
675948	22-01-3117	11	.....	.....	.....
675956	22-01-3127	12	.....	.....	.....

### With Locking Ramp

Part No.	Cross Ref. No.	Pos.	1	10	25
676174	22-01-2027	2	.....	.....	.....
676182	22-01-2037	3	.....	.....	.....
676191	22-01-2047	4	.....	.....	.....
676203	22-01-2057	5	.....	.....	.....
676211	22-01-2067	6	.....	.....	.....
676220	22-01-2077	7	.....	.....	.....
676238	22-01-2087	8	.....	.....	.....
676246	22-01-2097	9	.....	.....	.....
676254	22-01-2107	10	.....	.....	.....
676262	22-01-2117	11	.....	.....	.....
676271	22-01-2127	12	.....	.....	.....

### Crimp Terminals

- Current rating: 4A
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 50,000MΩ min.
- Withstanding voltage: 1,500VAC/minute
- Contact material: phosphor bronze
- Wire accommodation: 22-30 AWG
- Insulation range: 1.58mm (0.062") diameter max.



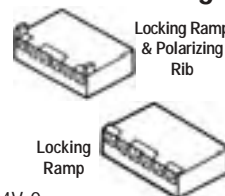
### Polarizing Key

- Plastic
- Polyester, UL94V-0, Natural

Part No.	Cross Ref. No.	1	10	25
676852	08-52-0123	.....	.....	.....
676895	08-65-0816	.....	.....	.....

Part No.	Product No.	Color	Plating	1	10	100
836908	2-382811-1	Blk	Tin	.....	.....	.....
421454	382811-8	Blk	5μ" gold	.....	.....	.....
944001	382811-9	Red	15μ" gold	.....	.....	.....

- Current rating: 3A DC
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/minute
- Housing: nylon 6/6, UL94V-0
- Operating temp.: -40°C to +105°C



### With Locking Ramp and Polarizing Rib

Part No.	Cross Ref. No.	Pos.	1	10	25
688554	2530S020000	2	.....	.....	.....
688562	2530S030000	3	.....	.....	.....
688571	2530S040000	4	.....	.....	.....
688600	2530S050000	5	.....	.....	.....
688618	2530S060000	6	.....	.....	.....
688626	2530S070000	7	.....	.....	.....
688642	2530S080000	8	.....	.....	.....
688651	2530S090000	9	.....	.....	.....
688669	2530S100000	10	.....	.....	.....
688677	2530S110000	11	.....	.....	.....
688685	2530S120000	12	.....	.....	.....

### With Locking Ramp

Part No.	Cross Ref. No.	Pos.	1	10	25
688802	2530S020N00	2	.....	.....	.....
688811	2530S030N00	3	.....	.....	.....
688829	2530S040N00	4	.....	.....	.....
688837	2530S050N00	5	.....	.....	.....
688845	2530S060N00	6	.....	.....	.....
688853	2530S070N00	7	.....	.....	.....
688861	2530S080N00	8	.....	.....	.....
688870	2530S090N00	9	.....	.....	.....
688888	2530S100N00	10	.....	.....	.....
688896	2530S110N00	11	.....	.....	.....
688909	2530S120N00	12	.....	.....	.....

### Crimp Terminals

- Voltage rating: 250VAC
- Current rating: 4A
- Contact resistance: 20mΩ initial
- Insulation resistance: 50k MΩ min.
- Withstanding voltage: 1,500VAC/minute
- Contact material: phosphor bronze



Part No.	Cross Ref. No.	Plating	1	10	25
689274	2533TPB00A0	Tin	.....	.....	.....
689291	2533TPBU0A0	Gold	.....	.....	.....

### Polarizing Key

- Plastic
- Polyester, UL94V-0, Natural

Part No.	Cross Ref. No.	1	10	25
689258	6001-PK0005	.....	.....	.....

## Free Technical Support

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AMP

### 2-Position Low Profile

- 94V-0 rated housing
- 0.100" centerlines
- One-piece contact construction
- High normal forces
- Contacts: phosphor bronze

## AMPMODU™ Shunts

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

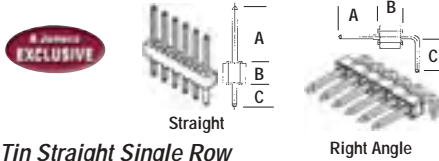
♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

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






## .100" (2.54mm) Male Breakaway Headers

- Insulation resistance: 1,000MΩ min.
- Contact resistance: 20mΩ initial max.
- Withstanding voltage: 500VAC/1 minute
- Voltage rating: 250VDC
- Current rating: 3A
- Housing: glass filled polyester, black (UL94V-0)
- Contact: 0.64mm (0.025") square













### Tin Straight Single Row

- (A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685708	22-28-4022 	2	.....\$ .20	\$ .066	\$ .063
685716	22-28-4032 	3	.....\$ .20	.119	.113
685724	22-28-4042 	4	.....\$ .20	.166	.158
685732	22-28-4052 	5	.....\$ .24	.225	.214
685741	22-28-4062 	6	.....\$ .28	.261	.249
685759	22-28-4072 	7	.....\$ .31	.287	.271
685767	22-28-4082 	8	.....\$ .33	.308	.298
685775	22-28-4092 	9	.....\$ .35	.331	.323
685783	22-28-4102 	10	.....\$ .45	.413	.397
685791	22-28-4112 	11	.....\$ .50	.482	.461
685804	22-28-4122 	12	.....\$ .55	.51	.49












### Tin Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686188	22-28-4020 	2	.....\$ .21	\$ .182	\$ .173
686196	22-28-4030 	3	.....\$ .20	.174	.165
686209	22-28-4040 	4	.....\$ .27	.245	.233
686217	22-28-4050 	5	.....\$ .31	.284	.27
686225	22-28-4060 	6	.....\$ .33	.284	.27
686233	22-28-4070 	7	.....\$ .33	.30	.285
686241	22-28-4080 	8	.....\$ .37	.332	.315
686250	22-28-4090 	9	.....\$ .43	.371	.352
686268	22-28-4100 	10	.....\$ .44	.379	.36
686276	22-28-4360 	36	.....\$ .90	.78	.74











### Gold Straight Single Row

- (A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685839	22-28-4025 	2	.....\$ .41	\$ .371	\$ .353
685847	22-28-4035 	3	.....\$ .38	.362	.344
685855	22-28-4045 	4	.....\$ .73	.61	.58
685863	22-28-4055 	5	.....\$ .80	.78	.74
685871	22-28-4065 	6	.....\$ 1.08	.96	.91
685880	22-28-4075 	7	.....\$ 1.19	1.13	1.09
685898	22-28-4085 	8	.....\$ 1.36	1.21	1.16
685901	22-28-4095 	9	.....\$ 1.55	1.35	1.32
685919	22-28-4105 	10	.....\$ 1.69	1.50	1.47
685927	22-28-4115 	11	.....\$ 1.89	1.65	1.57
685935	22-28-4125 	12	.....\$ 1.99	1.78	1.75












### Gold Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686292	22-28-4023 	2	.....\$ .20	\$ .182	\$ .173
686305	22-28-4033 	3	.....\$ .27	.245	.233
686313	22-28-4043 	4	.....\$ .28	.253	.24
686321	22-28-4053 	5	.....\$ .29	.261	.248
686330	22-28-4063 	6	.....\$ .29	.261	.248
686348	22-28-4073 	7	.....\$ .29	.261	.248
686356	22-28-4083 	8	.....\$ .30	.269	.256
686364	22-28-4093 	9	.....\$ .37	.34	.323
686372	22-28-4103 	10	.....\$ .37	.34	.323
686381	22-28-4363 	36	.....\$ 1.31	1.03	.98











### Tin Right Angle Single Row

- (A) .309"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685960	22-28-6020 	2	.....\$ .20	\$ .143	\$ .135
685978	22-28-6030 	3	.....\$ .22	.207	.196
685986	22-28-6040 	4	.....\$ .35	.338	.325
685994	22-28-6050 	5	.....\$ .38	.37	.354
686006	22-28-6060 	6	.....\$ .47	.453	.434
686014	22-28-6070 	7	.....\$ .54	.474	.461
686022	22-28-6080 	8	.....\$ .66	.64	.61
686031	22-28-6090 	9	.....\$ .50	.487	.466
686049	22-28-6100 	10	.....\$ .53	.49	.47
686057	22-28-6110 	11	.....\$ .55	.535	.512
686065	22-28-6120 	12	.....\$ .57	.521	.51












### Tin Right Angle Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686401	22-28-8020 	2	.....\$ .23	\$ .198	\$ .188
686410	22-28-8030 	3	.....\$ .20	.182	.173
686428	22-28-8040 	4	.....\$ .31	.277	.263
686436	22-28-8050 	5	.....\$ .34	.30	.285
686444	22-28-8060 	6	.....\$ .34	.30	.285
686452	22-28-8070 	7	.....\$ .42	.379	.36
686461	22-28-8080 	8	.....\$ .42	.379	.36
686479	22-28-8090 	9	.....\$ .45	.348	.33
686487	22-28-8100 	10	.....\$ .38	.356	.338
686495	22-28-8360 	36	.....\$ 1.29	1.02	.97

### Gold Right Angle Single Row

- (A) .309"; (B) .100"; (C) .118"












Part No.	Cross Ref. No.	Pos.	1	10	25
686073	22-28-6022 	2	.....\$ .31	\$ .297	\$ .285
686081	22-28-6032 	3	.....\$ .51	.435	.413
686090	22-28-6042 	4	.....\$ .51	.49	.466
686102	22-28-6052 	5	.....\$ .82	.73	.70
686111	22-28-6062 	6	.....\$ .74	.72	.69
686129	22-28-6072 	7	.....\$ .83	.81	.79
686137	22-28-6082 	8	.....\$ .99	.91	.90
686145	22-28-6092 	9	.....\$ 1.07	1.00	.92
686153	22-28-6102 	10	.....\$ 1.09	1.01	.95
686161	22-28-6112 	11	.....\$ 1.12	1.02	.97
686170	22-28-6122 	12	.....\$ 1.27	1.03	1.00

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





## .100" (2.54mm) Pitch Solid Headers

- Voltage rating: 250VAC
- Contact material: brass, tin plated 0.025" square posts
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/1 minute
- Current rating: 3A
- Contact resistance: 20mΩ max.

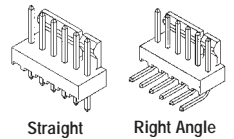
### Straight with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
687957	22-23-2021 	2	.....\$ .20	\$ .142	\$ .135
687965	22-23-2031 	3	.....\$ .21	.198	.19
687973	22-23-2041 	4	.....\$ .26	.252	.241
687981	22-23-2051 	5	.....\$ .31	.30	.287
687990	22-23-2061 	6	.....\$ .36	.344	.329
688001	22-23-2071 	7	.....\$ .31	.302	.289
688028	22-23-2081 	8	.....\$ .48	.468	.447
688036	22-23-2091 	9	.....\$ .53	.51	.488
688044	22-23-2101 	10	.....\$ .57	.55	.53
688052	22-23-2111 	11	.....\$ .60	.58	.56
688061	22-23-2121 	12	.....\$ .50	.481	.46

### Right Angle with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
688212	22-05-3021 	2	.....\$ .33	\$ .323	\$ .307
688221	22-05-3031 	3	.....\$ .28	.27	.258
688239	22-05-3041 	4	.....\$ .36	.35	.333
688247	22-05-3051 	5	.....\$ .35	.33	.314
688255	22-05-3061 	6	.....\$ .51	.487	.467
688263	22-05-3071 	7	.....\$ .61	.59	.58
688271	22-05-3081 	8	.....\$ .65	.63	.61
688280	22-05-3091 	9	.....\$ .71	.67	.65
688298	22-05-3101 	10	.....\$ .76	.71	.69
688301	22-05-3111 	11	.....\$ .65	.63	.60
688319	22-05-3121 	12	.....\$ .59	.56	.504

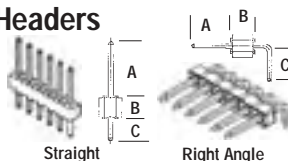
We will be adding hundreds of new connectors in the coming months. Check [www.Jameco.com](http://www.Jameco.com) frequently for all the newest additions.





## .100" (2.54mm) Male Breakaway Headers

- Voltage rating: 250VDC
- Contact resistance: 20mΩ initial max.
- Withstanding voltage: 500VAC/1 minute
- Housing: glass filled polyester, black (UL94V-0)
- Contact: 0.64mm (0.025") square
- Insulation resistance: 1,000MΩ min.
- Current rating: 3A



### 2556 Series Tin — Straight Single Row

- (A) 0.240"; (B) 0.100"; (C) 0.125"

Part No.	Cross Ref. No.	Pos.	1	10	25
677038	2556P02TL62R	2	.....\$ .20	.....\$ .066	.....\$ .063
677046	2556P03TL62R	3	......20	......119	......113
677054	2556P04TL62R	4	......20	......166	......158
677062	2556P05TL62R	5	......24	......225	......214
677071	2556P06TL62R	6	......28	......261	......249
677089	2556P07TL62R	7	......29	......279	......267
677097	2556P08TL62R	8	......33	......308	......298
677100	2556P09TL62R	9	......35	......321	......317
677118	2556P10TL62R	10	......37	......348	......339
677126	2556P11TL62R	11	......39	......367	......359
677134	2556P12TL62R	12	......41	......397	......377

### 2556 Series Tin — Straight Single Row

- (A) 0.925"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
678971	2556P02TL58R	2	.....\$ .21	.....\$ .182	.....\$ .173
678989	2556P03TL58R	3	......20	......174	......165
678997	2556P04TL58R	4	......27	......245	......233
679009	2556P05TL58R	5	......31	......284	......27
679017	2556P06TL58R	6	......33	......284	......27
679025	2556P07TL58R	7	......33	......30	......285
679033	2556P08TL58R	8	......37	......332	......315
679041	2556P09TL58R	9	......43	......371	......352
679050	2556P10TL58R	10	......44	......379	......36
679068	2556P36TL58R	36	......90	......78	......74

### 2556 Series — Gold Straight Single Row

- (A) 0.286"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677142	2556P02WB00R	2	.....\$ .41	.....\$ .371	.....\$ .353
677151	2556P03WB00R	3	......38	......362	......344
677169	2556P04WB00R	4	......73	......61	......58
677177	2556P05WB00R	5	......80	......78	......74
677185	2556P06WB00R	6	.....1.08	......96	......91
677193	2556P07WB00R	7	.....1.19	.....1.09	......99
677206	2556P08WB00R	8	.....1.36	.....1.21	.....1.16
677214	2556P09WB00R	9	.....1.55	.....1.35	.....1.32
677222	2556P10WB00R	10	.....1.69	.....1.50	.....1.47
677231	2556P11WB00R	11	.....1.89	.....1.65	.....1.57
677249	2556P12WB00R	12	.....1.99	.....1.78	.....1.75

### 2556 Series — Gold Straight Single Row

- (A) 0.240"; (B) 0.100"; (C) 0.125"

Part No.	Cross Ref. No.	Pos.	1	10	25
679084	2556P02JL62R	2	.....\$ .20	.....\$ .182	.....\$ .173
679092	2556P03JL62R	3	......27	......245	......233
679105	2556P04JL62R	4	......28	......253	......24
679113	2556P05JL62R	5	......29	......261	......248
679121	2556P06JL62R	6	......29	......261	......248
679130	2556P07JL62R	7	......29	......261	......248
679148	2556P08JL62R	8	......30	......269	......256
679156	2556P09JL62R	9	......37	......34	......323
679164	2556P10JL62R	10	......37	......34	......323
679172	2556P36JL62R	36	.....1.31	.....1.03	......98

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

### 2557 Series Tin — Right Angle Single Row

- (A) 0.309"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677505	2557P02T000R	2	.....\$ .20	.....\$ .143	.....\$ .135
677513	2557P03T000R	3	......22	......207	......196
677521	2557P04T000R	4	......35	......338	......325
677530	2557P05T000R	5	......38	......37	......354
677548	2557P06T000R	6	......47	......453	......434
677556	2557P07T000R	7	......54	......474	......461
677564	2557P08T000R	8	......66	......64	......61
677572	2557P09T000R	9	......69	......67	......63
677581	2557P10T000R	10	......75	......72	......69
677599	2557P11T000R	11	......55	......535	......512
677601	2557P12T000R	12	......57	......521	......51

### 2557 Series Tin — Right Angle Single Row

- (A) 0.244"; (B) 0.100"; (C) 0.120"

Part No.	Cross Ref. No.	Pos.	1	10	25
679199	2567P02TL39R	2	.....\$ .23	.....\$ .198	.....\$ .188
679201	2567P03TL39R	3	......20	......182	......173
679210	2567P04TL39R	4	......31	......277	......263
679228	2567P05TL39R	5	......34	......30	......285
679236	2567P06TL39R	6	......34	......30	......285
679244	2567P07TL39R	7	......42	......379	......36
679252	2567P08TL39R	8	......42	......379	......36
679261	2567P09TL39R	9	......45	......348	......33
679279	2567P10TL39R	10	......38	......356	......338
679287	2567P36TL39R	36	.....1.29	.....1.02	......97

### 2557 Series — Gold Right Angle Single Row

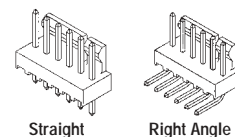
- (A) 0.309"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677628	2557P02U000R	2	.....\$ .31	.....\$ .297	.....\$ .285
677644	2557P03U000R	3	......51	......435	......413
677652	2557P04U000R	4	......51	......49	......466
677871	2557P05U000R	5	......82	......73	......70
677880	2557P06U000R	6	......85	......77	......73
677898	2557P07U000R	7	......95	......89	......83
677901	2557P08U000R	8	......99	......91	......90
677919	2557P09U000R	9	.....1.07	.....1.00	......92
677927	2557P10U000R	10	.....1.24	.....1.06	.....1.03
677935	2557P11U000R	11	.....1.12	.....1.02	......97
677943	2557P12U000R	12	.....1.27	.....1.03	.....1.00



## .100" (2.54mm) Pitch Solid Headers

- Voltage rating: 250VAC
- Contact material: brass, tin plated 0.025" square posts
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/1 minute
- Current rating: 3A
- Contact resistance: 20mΩ max.



### Straight with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
677257	2571P02V000R	2	.....\$ .20	.....\$ .142	.....\$ .135
677265	2571P03V000R	3	......21	......198	......19
677273	2571P04V000R	4	......26	......252	......241
677281	2571P05V000R	5	......31	......30	......287
677290	2571P06V000R	6	......36	......344	......329
677302	2571P07V000R	7	......31	......302	......289
677311	2571P08V000R	8	......48	......468	......447
677329	2571P09V000R	9	......53	......51	......488
677337	2571P10V000R	10	......59	......56	......531
677345	2571P11V000R	11	......60	......58	......56
677353	2571P12V000R	12	......65	......61	......59

### Right Angle with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
677960	2571P02H000R	2	.....\$ .33	.....\$ .323	.....\$ .307
678006	2571P03H000R	3	......28	......27	......258
678014	2571P04H000R	4	......36	......35	......333
678022	2571P05H000R	5	......35	......33	......314
678031	2571P06H000R	6	......51	......487	......467
678049	2571P07H000R	7	......61	......58	......57
678057	2571P08H000R	8	......69	......63	......61
678065	2571P09H000R	9	......73	......67	......61
678073	2571P10H000R	10	......76	......71	......69
678081	2571P11H000R	11	......79	......75	......73
678090	2571P12H000R	12	......83	......79	......75

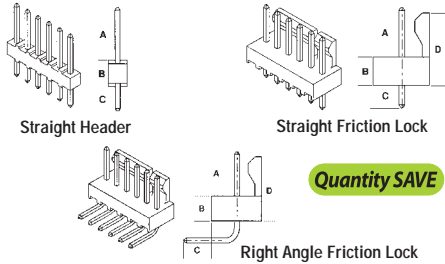
**Committed to You**

We're committed to providing you with the best service in the industry.



## KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V
- Current: 4.0A
- Housing: nylon, UL94V-0
- Insulation resistance: 50,000MΩ min.
- Durability: tin – 25 cycles max.; gold – 100 cycles max.
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500V
- Contact: brass, 0 – 6.4mm (0.25") square



### Straight Header (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

\*Prepackaged: please order in increments of 10

Part No.	Product No.	Positions	1	10	100
232186	22-03-2031R	3	.....*	\$ .145	<b>(\$ .109)</b>

### Straight Friction Lock Headers (Tin)

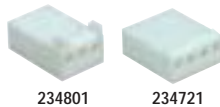
- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266	22-23-2021R	2 .....	\$.29	\$.23	\$.15
232274	22-23-2031R	3 .....	.35	.30	.19
232282	22-23-2041R	4 .....	.42	.36	.23
232291	22-23-2051R	5 .....	.49	.42	.27
232303	22-23-2061R	6 .....	.55	.48	.31
232311	22-23-2071R	7 .....	.63	.55	.36
232320	22-23-2081R	8 .....	.72	.63	.41
232338	22-23-2091R	9 .....	.61	.489	.467
232346	22-23-2101R	10 .....	.80	.70	.46
232354	22-23-2121R	12 .....	.95	.83	.55



## KK® Series .100" (2.54mm) Female Housing & Crimp Terminals

- Voltage: 250V
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50k MΩ



### Housing Material:

- Contact insertion force: 1.5 lbs. max.
- Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C

### Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798	22-01-3027R	2 .....	\$.29	\$.17	\$.10
234801	22-01-3037R	3 .....	.29	.21	.13
234819	22-01-3047R	4 .....	.33	.287	.188
234827	22-01-3057R	5 .....	.36	.31	.20
234835	22-01-3067R	6 .....	.42	.36	.23
234843	22-01-3077R	7 .....	.47	.40	.30
234851	22-01-3087R	8 .....	.54	.47	.30
234878	22-01-3107R	10 .....	.65	.55	.35
234886	22-01-3127R	12 .....	.76	.66	.42

### Crimp Terminals

- Current: phosphor bronze – 4.0A max., brass – 2.5A max.
- Accommodates 22 to 30 AWG
- Insulation range: 0.062" (1.58mm) diameter max.
- Prepackaged: please order in increments of 10

Part No.	Product No.	Description	10	100	1000
234923	08-50-0114R	Brass with tin plating .....	\$ .065	\$ .048	\$ .029
234931	08-55-0102R	Brass with 15µ" select gold plating .....	.22	.17	.11
462969	08-65-0805R	Phosphor bronze with tin plating, cat ear .....	.10	.09	.08
463005	08-65-0816R	Phosphor bronze with 15µ" select gold plating .....	.147	.14	.133

♣ These products ship from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# Headers & Housings



## KK® Series .100" (2.54mm) Pitch Crimp Terminal Housing

### High Pressure

- Voltage: 250V
- Current: 2.5A
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0



Part No.	Product No.	Positions	1	10	100
516218	10-11-2023R	2 .....	\$.09	\$.078	\$.138
516226	10-11-2033R	3 .....	.24	.106	.101
516234	10-11-2043R	4 .....	.20	.15	.12
516242	10-11-2053R	5 .....	.26	.247	.171
516251	10-11-2063R	6 .....	.20	.185	.176
516277	10-11-2083R	8 .....	.30	.28	.25
516314	10-11-2123R	12 .....	.54	.418	.40



## C-Grid™ .100" (2.54mm) Pitch Breakaway Headers

- Voltage: 250V
- Current: 3A
- Height: .220"
- Contact resistance: 15mΩ max.
- Contacts: phosphor bronze
- Dielectric w/standing voltage: 1500V
- Insulation resistance: 1000MΩ min.



### High Profile .220"H, Dual Row, Right Angle

Part No.	Product No.	Positions	1	10	100
514001	10-89-4406	40 .....	\$6.05	\$5.72	\$5.45

### Dual Row, Vertical, High Temperature

Part No.	Cross Ref.	Positions	1	10	100
514600	10-89-7042R	4 .....	\$.24	\$.209	\$.186
514466	10-89-7102	10 .....	.65	.57	.421
514503	10-89-7142R	14 .....	.92	.82	.59
514546	10-89-7202R	20 .....	1.38	1.21	.87

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## .100" (2.54mm) IDC Headers

- Housing: UL94V-0 rated, polyester, natural color



Fig. 1 (347266)



Fig. 2 (347371)



Fig. 3 (347442)



Fig. 4 (347531)



Fig. 5 (348074)



Fig. 6 (348251)

### Narrow Flat Headers

- Posts: copper alloy, tin plated
- Base dimensions: 0.092"W x 0.1"H

Quantity SAVE

#### Straight Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347240	644456-2	1	2	.....	\$ .20	\$ .097 (\$ .073)
347258	644456-3	1	3	.....	.20	.111 (.083)
347266	644456-4	1	4	.....	.22	.205 (.153)
347274	644456-5	1	5	.....	.20	.182 (.137)
347282	644456-6	1	6	.....	.20	.182 (.137)
347291	644456-7	1	7	.....	.28	.269 (.201)
347303	644456-8	1	8	.....	.41	.328 (.246)
347311	644456-9	1	9	.....	.37	.339 (.254)
347320	1-644456-0	1	10	.....	.41	.379 (.284)

#### Straight Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347338	644695-2	2	2	.....	\$ .20	\$ .112 (\$ .084)
347346	644695-3	2	3	.....	.20	.118 (.088)
347354	644695-4	2	4	.....	.20	.182 (.136)
347362	644695-5	2	5	.....	.23	.22 (.165)
347371	644695-6	2	6	.....	.29	.248 (.186)
347389	644695-7	2	7	.....	.29	.288 (.216)
347397	644695-8	2	8	.....	.36	.332 (.248)
347400	644695-9	2	9	.....	.37	.368 (.276)
347418	1-644695-0	2	10	.....	.41	.409 (.307)

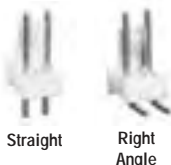
#### Right Angle Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347426	644457-2	3	2	.....	\$ .20	\$ .103 (\$ .077)
347434	644457-3	3	3	.....	.20	.134 (.10)
347442	644457-4	3	4	.....	.20	.174 (.13)
347451	644457-5	3	5	.....	.20	.189 (.141)
347469	644457-6	3	6	.....	.31	.30 (.225)
347477	644457-7	3	7	.....	.99	.98 (.74)
347485	644457-8	3	8	.....	.42	.39 (.292)
347493	644457-9	3	9	.....	.39	.355 (.266)
347506	1-644457-0	3	10	.....	.53	.489 (.366)

AMP

## MTA-100 (.100") Solid Headers

- 0.025" square posts
- Tin-plated
- Housing: nylon UL94V-0 rated, white polyester
- Posts: copper alloy, tin plated



Straight

Right Angle

### Straight Friction Lock

Part No.	Product No.	Positions	1	10	100
613931	640456-2	2	.....	\$ .20	\$ .059 \$ .049
613940	640456-3	3	.....	.20	.079 .075
613958	640456-4	4	.....	.20	.105 .099
613966	640456-5	5	.....	.20	.115 .109
613974	640456-6	6	.....	.20	.131 .115

### Right Angle Friction Lock

Part No.	Product No.	Positions	1	10	100
524859	640457-2	2	.....	\$ .20	\$ .10 \$ .08

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Aluminum EXCLUSIVE



### Narrow Flat Headers (Continued)

#### Right Angle Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347514	644694-2	4	2	.....	\$ .20	\$ .102 (\$ .077)
347522	644694-3	4	3	.....	.21	.13 (.098)
347531	644694-4	4	4	.....	.21	.179 (.134)
347549	644694-5	4	5	.....	.24	.204 (.153)
347557	644694-6	4	6	.....	.26	.221 (.166)
347565	644694-7	4	7	.....	.30	.255 (.191)
347573	644694-8	4	8	.....	.34	.289 (.217)
347581	644694-9	4	9	.....	.39	.332 (.249)
347590	1-644694-0	4	10	.....	.43	.366 (.275)

### Friction Lock Headers

- Posts: copper alloy, gold over nickel plated

#### Straight Post – Gold Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348058	641215-2	5	2	.....	\$ .37	\$ .304 \$ .276
348066	641215-3	5	3	.....	.24	.204 .175
348074	641215-4	5	4	.....	.52	.442 (.332)
348091	641215-5	5	5	.....	.74	.68 .65
348103	641215-6	5	6	.....	.82	.70 (.523)
348111	641215-7	5	7	.....	.50	.495 .492
348120	641215-8	5	8	.....	1.34	1.14 (.85)

#### Right Angle Post – Gold Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348234	641216-2	6	2	.....	\$ .56	\$ .48 (\$ .357)
348242	641216-3	6	3	.....	.59	.46 (.345)
348251	641216-4	6	4	.....	.95	.81 (.61)
348269	641216-5	6	5	.....	.82	.70 (.523)
348277	641216-6	6	6	.....	1.25	1.06 (.80)
348285	641216-7	6	7	.....	1.29	1.10 (.82)
348306	641216-8	6	8	.....	1.45	1.23 (.93)

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## Practical Practices

Money Saving Tips for the Engineer

AMP

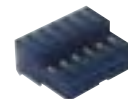
## MTA-100 (.100") IDC Connectors

- Voltage rating: 250VAC
- Current rating: 5A
- Low-level resistance: 6mΩ max. initial
- Dielectric withstand: 750VAC/1 min.
- Insulation resistance: 50kMΩ min.
- Contacts: phosphor bronze, tin-plated

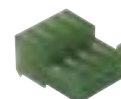
\* Prepackaged: please order in increments of 10

Lower \$\$\$

### Closed-End Style



854671  
w/o Polarizing Tab



756537  
w/ Polarizing Tab

### Without Polarizing Tabs w/ Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	10
750830	3-640440-2	♣ 2	22	Red	.....	* \$ .097
524701	640440-3	3	22	Red	.....	* .115
750848	3-640440-3	♣ 3	22	Red	.....	* .107
524710	640440-4	4	22	Red	.....	* .155
841598	3-640440-4	♣ 4	22	Red	.....	* .146
524728	640440-5	5	22	Red	.....	* .204
750856	3-640440-5	♣ 5	22	Red	.....	* .184
750864	3-640440-6	♣ 6	22	Red	.....	* .204
750872	3-640440-7	♣ 7	22	Red	.....	* .233
750881	3-640440-8	♣ 8	22	Red	.....	* .262
854591	640440-9	9	22	Red	.....	.54 .447
524681	1-640440-2	12	22	Red	.....	.49 .45
944562	4-640440-2	♣ 12	22	Red	.....	* .57
890672	1-640440-3	♣ 13	22	Red	.....	* .75
741811	1-640440-4	♣ 14	22	Red	.....	1.19 1.11
741829	1-640440-5	♣ 15	22	Red	.....	1.00 .95
741837	1-640440-6	♣ 16	22	Red	.....	1.55 1.43
524761	640441-2	2	24	White	.....	* .088
750899	3-640441-2	♣ 2	24	White	.....	* .097
524779	640441-3	3	24	White	.....	* .113
922814	3-640441-3	♣ 3	24	White	.....	* .107
750901	3-640441-4	♣ 4	24	White	.....	* .107
750910	3-640441-5	♣ 5	24	White	.....	* .184
524808	640441-6	6	24	White	.....	* .213
750928	3-640441-6	♣ 6	24	White	.....	* Call
755930	640441-7	7	24	White	.....	* .252
750936	3-640441-7	♣ 7	24	White	.....	* Call
922849	3-640441-8	♣ 8	24	White	.....	* .267
965216	640441-9	9	24	White	.....	* .95
741845	1-640441-0	♣ 10	24	White	.....	* .359
944600	4-640441-0	♣ 10	24	White	.....	* .34
741853	1-640441-2	♣ 12	24	White	.....	.54 .501
944642	4-640441-2	♣ 12	24	White	.....	* .57
944685	4-640441-5	♣ 15	24	White	.....	* Call
524824	640442-2	2	26	Blue	.....	* .11
750944	3-640442-2	♣ 2	26	Blue	.....	* .097
854621	640442-3	3	26	Blue	.....	* .116
750952	3-640442-3	♣ 3	26	Blue	.....	* .107
524832	640442-4	4	26	Blue	.....	.20 .15
750961	3-640442-4	♣ 4	26	Blue	.....	* Call
854647	640442-5	5	26	Blue	.....	* .204
922873	3-640442-5	♣ 5	26	Blue	.....	* Call
854671	640442-6	6	26	Blue	.....	* .213
922902	3-640442-6	♣ 6	26	Blue	.....	* Call

★ Please call or visit our website for minimum order quantity and pricing



## MTA-100 (.100") IDC Connectors (Continued)

### Closed-End Style (Continued)

#### Without Polarizing Tabs w/ Locking Ramp

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Pos.	AWG	Color	1	5
922945	3-640442-7	7	26	Blue	★	Call
854701	640442-8	8	26	Blue	★	Call
922961	3-640442-8	8	26	Blue	★	Call
741861	1-640442-0	10	26	Blue	★	.359
944722	4-640442-2	12	26	Blue	★	Call
858082	643813-2	2	22	Red	★	.126
751138	3-643813-2	2	22	Red	★	Call
751146	3-643813-3	3	22	Red	★	.107
858111	643813-4	4	22	Red	★	.155
751154	3-643813-4	4	22	Red	★	Call
751162	3-643813-5	5	22	Red	★	.184
858146	643813-6	6	22	Red	★	.36
858171	643813-7	7	22	Red	★	.288
751189	3-643813-8	8	22	Red	★	.262
742194	1-643813-0	10	22	Red	★	.359
944802	4-643813-0	10	22	Red	★	.33
890841	1-643813-2	12	22	Red	★	.55
944845	4-643813-2	12	22	Red	★	Call
890875	1-643813-4	14	22	Red	★	.209
742207	1-643813-6	16	22	Red	★	2.65 2.22
756465	643814-2	2	24	White	★	Call
923366	3-643814-2	2	24	White	★	Call
858200	643814-3	3	24	White	★	.116
751197	3-643814-3	3	24	White	★	.107
858251	643814-4	4	24	White	★	.155
923382	3-643814-4	4	24	White	★	Call
751200	3-643814-5	5	24	White	★	Call
923403	3-643814-6	6	24	White	★	Call
923420	3-643814-7	7	24	White	★	Call
756473	643814-8	8	24	White	★	.262
923446	3-643814-8	8	24	White	★	Call
746347	1-643814-0	10	24	White	★	.359
944870	4-643814-0	10	24	White	★	Call
890947	1-643814-2	12	24	White	★	Call
944917	4-643814-2	12	24	White	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

### Closed-End Style (Continued)

#### With Polarizing Tabs & Locking Ramp

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Pos.	AWG	Color	1	5
858349	643815-2	2	26	Blue	★	\$ .102
751218	3-643815-2	2	26	Blue	★	Call
923462	3-643815-3	3	26	Blue	★	.10
756481	643815-4	4	26	Blue	★	.155
858373	643815-5	5	26	Blue	★	.204
923489	3-643815-5	5	26	Blue	★	Call
858402	643815-6	6	26	Blue	★	.213
923500	3-643815-6	6	26	Blue	★	Call
923526	3-643815-7	7	26	Blue	★	Call
923542	3-643815-8	8	26	Blue	★	Call
944950	4-643815-0	10	26	Blue	★	Call
923569	3-643816-2	2	28	Green	★	Call
756537	643816-4	4	28	Green	★	.155
756553	643816-6	6	28	Green	★	Call

### Feed-Thru Style



923180  
w/o Polarizing Tab



756810  
w/ Polarizing Tab

#### Without Polarizing Tabs w/ Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	5
756027	640620-3	3	22	Red	★	\$ .146
923163	3-640620-3	3	22	Red	★	Call
923180	3-640620-4	4	22	Red	★	Call
855789	640620-5	5	22	Red	★	.204
756035	640620-6	6	22	Red	★	.213
923201	3-640620-6	6	22	Red	★	Call
923227	3-640620-8	8	22	Red	★	Call
923243	3-640621-3	3	24	White	★	Call

#### With Polarizing Tabs & Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	5
756799	644540-8	8	22	Red	★	Call

★ Please call or visit our website for minimum order quantity and pricing.



## Manual Pistol Hand Grip Tool

• For use with MTA connectors



Part No.	Product No.	1	10
526635	58074-1	\$57.09	\$53.45



## .100" (2.54mm) Strain Relief Covers



### Closed-End Style

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
326019	643075-2	1	2	\$.20	\$.142	\$.107
326035	643075-4	1	4	.21	.153	.114
326043	643075-5	1	5	.23	.198	.148
326051	643075-6	1	6	.20	.15	.113
326060	643075-7	1	7	.23	.213	.159
326078	643075-8	1	8	.54	.46	.345
326086	643075-9	1	9	.57	.484	.363
326094	1-643075-0	1	10	.59	.331	.248

### Feed-Thru Style

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
326107	643077-2	2	2	\$.25	\$.23	\$.172
326115	643077-3	2	3	.20	.111	.083
326123	643077-4	2	4	.20	.119	.089
326131	643077-5	2	5	.35	.30	.225
326158	643077-7	2	7	.52	.442	.332
326174	643077-9	2	9	.57	.485	.363
326182	1-643077-0	2	10	.59	.501	.375



## T-Handle Tool

• For .100" (2.54mm) IDC connectors

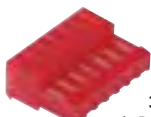


Part No.	Product No.	Description	Price
365974	59803-1	.100" hand tool	\$20.89



- Voltage rating: 250VAC
- Current rating: 4A max.
- Dielectric withstanding voltage: 750VAC/1 min.

### Closed-End Style



345658  
w/o Polarizing Tab



345981  
w/ Polarizing Tab

#### Without Polarizing Tabs

Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
345658	640440-7	7	22	Red	...	\$.20	\$.168
345666	640440-8	8	22	Red	...	.23	.179
345674	640440-9	9	22	Red	...	.29	.247
345746	640441-7	7	24	White	...	.20	.17
345754	640441-8	8	24	White	...	.26	.235
345762	640441-9	9	24	White	...	.29	.199
345771	1-640441-0	10	24	White	...	.29	.246

## .100" (2.54mm) IDC Connectors

- Low-level resistance: 5mΩ max. initial
- Insulation resistance: 5000MΩ min. initial



### Feed-Thru Style



### Closed-End Style (Continued)

#### With Polarizing Tabs



Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
345965	643813-2	2	22	Red	...	\$.23	\$.13
345973	643813-3	3	22	Red	...	.23	.196
345981	643813-4	4	22	Red	...	.20	.123
345990	643813-5	5	22	Red	...	.19	.141
346001	643813-6	6	22	Red	...	.24	.174
346010	643813-7	7	22	Red	...	.20	.189
346028	643813-8	8	22	Red	...	.23	.195
346036	643813-9	9	22	Red	...	.25	.213
346044	1-643813-0	10	22	Red	...	.29	.246
346087	643814-5	5	24	White	...	.20	.166
346095	643814-6	6	24	White	...	.20	.174
346108	643814-7	7	24	White	...	.20	.189
346116	643814-8	8	24	White	...	.23	.213
346132	1-643814-0	10	24	White	...	.32	.264

#### Without Polarizing Tabs

Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
346327	640620-2	2	22	Red	...	\$.20	\$.113
346335	640620-3	3	22	Red	...	.15	.122
346343	640620-4	4	22	Red	...	.22	.13
346351	640620-5	5	22	Red	...	.23	.122
346360	640620-6	6	22	Red	...	.24	.131
346378	640620-7	7	22	Red	...	.20	.19
346407	1-640620-0	10	22	Red	...	.29	.24
346423	640621-3	3	24	White	...	.21	.096
346431	640621-4	4	24	White	...	.22	.096
346440	640621-5	5	24	White	...	...	.17
346466	640621-7	7	24	White	...	.25	.158
346482	640621-9	9	24	White	...	.28	.23
346491	1-640621-0	10	24	White	...	.29	.24

Continued on next page

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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## .100" (2.54mm) IDC Connectors (Continued) Feed-Thru Style



346790



With Polarizing Tabs

\* Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
346685	644540-2	2	22	Red	\$.20	\$.113	\$.085
346693	644540-3	3	22	Red	\$.20	\$.113	\$.085
346706	644540-4	4	22	Red	\$.22	\$.123	\$.112
346714	644540-5	5	22	Red	\$.22	\$.141	\$.106
346722	644540-6	6	22	Red	\$.24	\$.168	\$.126
346731	644540-7	7	22	Red	\$.26	\$.221	\$.166
346749	644540-8	8	22	Red	\$.28	\$.238	\$.179
346765	1-644540-0	10	22	Red	\$.35	\$.213	\$.16
346773	644563-2	2	24	White	\$.20	\$.13	\$.116
346781	644563-3	3	24	White	\$.20	\$.112	\$.084
346790	644563-4	4	24	White	\$.22	\$.123	\$.092
346811	644563-6	6	24	White	\$.20	\$.17	\$.128
346829	644563-7	7	24	White	\$.22	\$.187	\$.14
346837	644563-8	8	24	White	\$.26	\$.221	\$.166
346853	1-644563-0	10	24	White	\$.35	\$.28	\$.21

## .118" (3.0mm) Pitch Micro-Fit 3.0™ SMT Connectors

- Solderable fitting nail provides retention to PCB
- Fully polarized to mating receptacle
- Dielectric withstanding voltage: 1500VAC
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing: high temperature LCP, UL94V-0



Single Row, Right Angle Dual Row, Vertical Dual Row, Right Angle

### Single Row, Right Angle, Tin

Part No.	Cross Ref. No.	Pos.	1	10	100
338423	43650-0212	2	\$.239	\$2.24	\$1.85
338458	43650-0312	3	2.82	2.73	1.92
338482	43650-0412	4	3.25	2.84	2.38
338511	43650-0512	5	3.30	3.03	2.26
338546	43650-0612	6	3.83	3.46	2.42

### Dual Row, Vertical, Tin

Part No.	Cross Ref. No.	Pos.	1	10	100
337949	43045-0218	2	\$.215	\$1.91	\$1.66
338028	43045-0418	4	2.49	2.37	2.04
338095	43045-0618	6	3.55	3.32	2.46
338159	43045-0818	8	3.35	3.09	2.82
338191	43045-1018	10	3.55	3.32	2.75

### Dual Row, Right Angle, Tin

Part No.	Cross Ref. No.	Pos.	1	10	100
337906	43045-0209	2	\$.215	\$1.92	\$1.69
337981	43045-0409	4	2.65	2.37	1.99
338061	43045-0609	6	3.05	2.84	2.27

### Single Row, Right Angle, Gold

Part No.	Cross Ref. No.	Pos.	1	10	100
338415	43650-0210	2	\$.225	\$2.03	\$1.81
338440	43650-0310	3	3.18	2.82	2.13
338474	43650-0410	4	3.54	3.47	2.36
338503	43650-0510	5	3.78	3.47	2.56
338538	43650-0610	6	3.59	3.41	3.24

### Dual Row, Vertical, 30μ" Gold

Part No.	Cross Ref. No.	Pos.	1	10	100
337957	43045-0220	2	\$.275	\$2.54	\$2.32
338036	43045-0420	4	2.75	2.51	2.46
338108	43045-0620	6	3.89	3.57	3.24
338204	43045-1020	10	5.05	4.64	4.23

### Dual Row, Right Angle, 30μ" Gold

Part No.	Cross Ref. No.	Pos.	1	10	100
337914	43045-0211	2	\$.295	\$2.71	\$2.47
337990	43045-0411	4	3.55	3.32	2.61
338124	43045-0811	8	3.05	2.76	2.60

JAMECO ValuePro

## .118" (3.0mm) Single Row Micro-Fit Connectors

Molex Micro-Fit 3.0™ Series Value Equivalents

JAMECO ValuePro

### Single Row Crimp Housing

- Positive latching to mating headers or plugs
- Fully isolated contacts
- Wire to wire
- Black
- Integral pull tabs for ease in unmating
- Receptacle mates with 43640 and 43650 series

Quantity SAVE



338634 (Fig. 1)



338271 (Fig. 2)



338280 (Fig. 3)



338491 (Fig. 4)

### Receptacles (Fig. 1)

Part No.	Cross Ref. No.	Positions	1	10	100
338351	43645-0200	2	\$.20	\$.166	\$.152
338360	43645-0300	3	\$.20	\$.17	\$.128
338378	43645-0400	4	\$.21	\$.179	\$.134
338634	43645-0500	5	\$.23	\$.196	\$.147
338386	43645-0600	6	\$.26	\$.221	\$.166

### Plugs – Panel Mount (Fig. 2)

Part No.	Cross Ref. No.	Positions	1	10	100
338255	43640-0200	2	\$.20	\$.17	\$.128
338271	43640-0300	3	\$.23	\$.196	\$.147
338298	43640-0400	4	\$.32	\$.272	\$.204
338319	43640-0500	5	\$.35	\$.298	\$.224
338335	43640-0600	6	\$.38	\$.349	\$.262

### Plugs – Free Hanging (Fig. 3)

Part No.	Cross Ref. No.	Positions	1	10	100
338263	43640-0201	2	\$.20	\$.162	\$.122
338280	43640-0301	3	\$.20	\$.162	\$.122
338301	43640-0401	4	\$.21	\$.179	\$.134
338327	43640-0501	5	\$.50	\$.425	\$.318
338343	43640-0601	6	\$.34	\$.298	\$.217

### Single Row PCB Headers

- Wire to board
- Snap-in peg locks header to PCB for retention
- Surface mount compatible
- Mates with 43645 series
- Fully polarized to mating receptacle
- Black

### Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
338394	43650-0200	2	\$.39	\$.332	\$.249
338431	43650-0300	3	\$.41	\$.349	\$.262
338466	43650-0400	4	\$.43	\$.366	\$.275
338491	43650-0500	5	1.15	.98	.73
338520	43650-0600	6	.99	.83	.62

### Right Angle w/ Snap-In Plastic Peg – 15μ" gold (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
338407	43650-0201	2	\$.61	\$.519	\$.389
338642	43650-0301	3	1.09	.93	.69
338651	43650-0401	4	1.25	1.06	.79

JAMECO ValuePro

## .118" (3.0mm) Dual Row Micro-Fit Connectors

Molex Micro-Fit 3.0™ Series Value Equivalents

### Double Row Crimp Housing

- Fully isolated contacts
- Housing: UL94V-0
- Voltage/current rating: 250V @ 5.0A (max.)
- Mates with 43020 and 43045 series
- Contact resistance: 10mΩ (max.)
- Contacts: tin or 30μ" gold plating over phosphor bronze
- See page 149 for figure number images

### Receptacles (Fig. 1 – pg 149)

Part No.	Cross Ref. No.	Positions	1	10	100
337666	43025-0200	2	\$.16	\$.116	\$.096
337674	43025-0400	4	\$.24	\$.204	\$.153
337682	43025-0600	6	\$.20	\$.17	\$.128
337691	43025-0800	8	\$.22	\$.21	\$.174
337703	43025-1000	10	\$.38	\$.326	\$.245
337711	43025-1200	12	\$.46	\$.388	\$.291
337842	43025-1600	16	\$.41	\$.349	\$.262
337851	43025-1800	18	\$.73	\$.62	\$.466
337869	43025-2000	20	\$.41	\$.349	\$.262
337877	43025-2400	24	\$.62	\$.53	\$.395

### Plugs – Panel Mount (Fig. 2 – pg 149)

Part No.	Cross Ref. No.	Positions	1	10	100
337586	43020-0200	2	\$.21	\$.179	\$.134
337594	43020-0400	4	\$.23	\$.196	\$.147
337607	43020-0600	6	\$.29	\$.247	\$.185
337623	43020-0800	8	\$.35	\$.298	\$.224
337640	43020-1000	10	\$.31	\$.264	\$.198
337826	43020-1200	12	\$.42	\$.38	\$.30
337834	43025-1400	14	\$.39	\$.333	\$.25

### Plugs – Free Hanging (Fig. 3 – pg 149)

Part No.	Cross Ref. No.	Positions	1	10	100
337800	43020-0201	2	\$.22	\$.186	\$.14
337818	43020-0401	4	\$.29	\$.20	\$.162
337615	43020-0601	6	\$.31	\$.237	\$.20
337631	43020-0801	8	\$.40	\$.34	\$.255
337658	43020-1001	10	\$.26	\$.224	\$.168

JAMECO ValuePro

### Extraction Tool

For Micro-Fit Connectors

- Length: 3.0"

Part No.	Cross Ref. No.	1	5
338669	11-03-0043	\$14.99	\$11.49



JAMECO ValuePro

### Crimp Tool

For Micro-Fit Connectors

- Length: 8.25"

Part No.	Cross Ref. No.	1	5	10
338678	HT-225D	\$26.99	\$24.83	\$21.59



Over 99% of Our Catalog Products Are In Stock

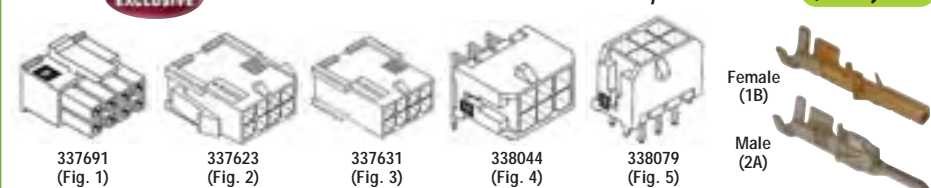
RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

# Micro-Fit 3.0™ Equivalent Connectors, Headers & Housings

## .118" (3.0mm) Dual Row Micro-Fit Connectors (Continued) Molex Micro-Fit 3.0™ Series Value Equivalents



### Double Row PCB Headers

- Surface mount compatible with PCB polarizing pegs
- Fully polarized to mating receptacle • Black

### Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
337885	43045-0200	2	\$.36	\$.306	\$.23
337965	43045-0400	4	\$.52	\$.442	\$.32
338044	43045-0600	6	\$.56	\$.476	\$.35
338554	43045-0800	8	\$.70	\$.60	\$.45
338562	43045-1000	10	\$.78	\$.66	\$.49
338212	43045-1200	12	\$.89	\$.84	\$.77
338571	43045-1400	14	\$.99	\$.99	\$.92
338597	43045-1600	16	\$.99	\$.99	\$.92
338600	43045-2000	20	\$.99	\$.99	\$.92

### Right Angle w/ Snap-In Plastic Peg – Gold (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
337893	43045-0202	2	\$.52	\$.442	\$.332
337973	43045-0402	4	\$.69	\$.59	\$.44
338052	43045-0602	6	\$.85	\$.75	\$.63
338116	43045-0802	8	\$.99	\$.89	\$.67
338167	43045-1002	10	\$.99	\$.89	\$.67
338221	43045-1202	12	\$.99	\$.89	\$.67
338589	43045-1402	14	\$.99	\$.89	\$.67
338618	43045-2202	22	\$.99	\$.89	\$.67
338626	43045-2402	24	\$.99	\$.89	\$.67

## .156" Center Housing Connectors & Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 215-216)
- Current rating: 10A AC/DC
- Voltage rating: 250V AC/DC

### 227416: 18-22 AWG

- Material: brass
- Finish: tin-plated

Part No.	Description	1	10	100	1000
215950	5 pos. housing	\$.35	\$.31	\$.25	\$.18
227416	Crimp contact	\$.32	\$.29	\$.26	\$.22

## .156" (3.96mm) Center Straight-Friction Lock Headers

- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin-tin-plated brass
- Base: nylon 66, UL94V-2

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104791	LMH4	4	\$.23	\$.13	\$.109	\$.093
104803	LMH5	5	\$.132	\$.108	\$.121	
104811	LMH6	6	\$.128	\$.102	\$.077	
104846	LMH10	10	\$.28	\$.204	\$.19	\$.142

More at [www.Jameco.com](http://www.Jameco.com)

### Vertical Thru Hole – Tin (Fig. 5)

Part No.	Cross Ref. No.	Positions	1	10	100
337922	43045-0212	2	\$.63	\$.539	\$.404
338001	43045-0412	4	\$.40	\$.34	\$.315
338079	43045-0612	6	\$.48	\$.408	\$.306
338132	43045-0812	8	\$.70	\$.60	\$.446
338175	43045-1012	10	\$.65	\$.55	\$.415
338239	43045-1212	12	\$.82	\$.70	\$.52

### Vertical Thru Hole – Gold (Fig. 5)

Part No.	Cross Ref. No.	Positions	1	10	100
337931	43045-0214	2	\$.49	\$.417	\$.313
338010	43045-0414	4	\$.60	\$.51	\$.383
338087	43045-0614	6	\$.81	\$.69	\$.517
338141	43045-0814	8	\$.99	\$.84	\$.63
338183	43045-1014	10	\$.25	\$.191	\$.143
338247	43045-1214	12	\$.39	\$.18	\$.88

### Female & Male Contacts

Type\*: 1: female 2: male

A: tin plating over phosphor bronze

B: 30μ" select gold over nickel over phosphor bronze

- Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	AWG	Type*	10	100
337720	43030-0007	20-24	1A	\$.094	\$.072
337738	43030-0009	20-24	1B	\$.126	\$.14
337746	43030-0010	26-30	1A	\$.096	\$.072
337754	43030-0012	26-30	1B	\$.119	\$.089
337762	43031-0007	20-24	2A	\$.103	\$.093
337771	43031-0009	20-24	2B	\$.135	\$.104
337789	43031-0010	26-30	2A	\$.085	\$.064
337797	43031-0012	26-30	2B	\$.134	\$.101

## .156" (3.96mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 212-216) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use w/ crimp pins, 78319, below

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104433	LCH3	3	\$.19	\$.12	\$.11	
104716	LCH4	4	\$.25	\$.22	\$.15	\$.12
104723	LCH5	5	\$.22	\$.198	\$.141	\$.106
104731	LCH6	6	\$.33	\$.30	\$.24	\$.15
104766	LCH10	10	\$.58	\$.51	\$.274	\$.206

### .156" (3.96mm) Center Crimp Pin

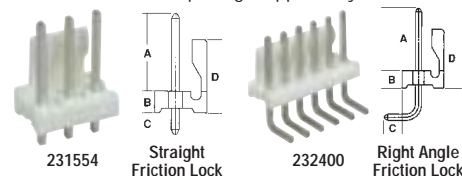
- Pin wire gauge: 18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)

- Prepackaged: please order in increments of 10

Part No.	Mfr. Cross Ref. No.	10	100	1000
78319	JS-5001-T	\$.14	\$.10	\$.09

## .156" (3.96mm) Male Headers

- .045" square posts
- Voltage and current rating: 600VAC @ 7.0A
- Contact material/plating: copper alloy/tin
- Insulator material: polyester
- UL94V-0 flammability rating
- Solder tail material/plating: copper alloy/tin



### Straight Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
231546	640445-2	2	\$.20	\$.10	\$.074
231554	640445-3	3	\$.21	\$.116	\$.108
231562	640445-4	4	\$.22	\$.129	\$.115
231626	1-640445-0	10	\$.26	\$.24	\$.18

Blue Part No. = Limited Quantity Available

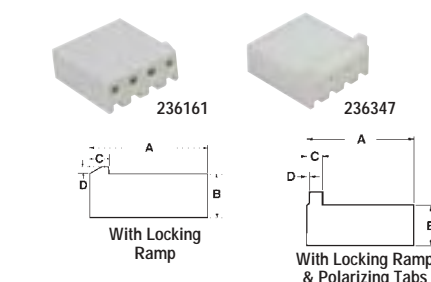
### Right Angle Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
232362	640389-2	2	\$.29	\$.26	\$.23
232400	640389-6	6	\$.96	\$.86	\$.75

## .156" (3.96mm) Female Housing

- Voltage and current rating: 250VAC @ 6.5A maximum
- Material: nylon, unreinforced 94V-0
- Dielectric withstanding voltage: 2kVAC
- Insulation resistance: 1,000MΩ minimum
- Hole diameter: .054" (1.37mm)



### With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Positions	1	10	100
236144	640250-2	2	\$.20	\$.082	\$.068
236152	640250-3	3	\$.21	\$.095	\$.07
236161	640250-4	4	\$.15	\$.127	
236187	640250-6	6	\$.163	\$.127	
236224	1-640250-0	10	\$.51	\$.357	\$.268

### With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"

Part No.	Product No.	Positions	1	10	100
236321	770849-2	2	\$.22	\$.106	\$.075
236347	770849-4	4	\$.30	\$.217	\$.154
236398	770849-9	9	\$.46	\$.39	\$.19

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

**.156" (3.96mm) IDC Connectors**  
AMP MTA-156 Series Value Equivalents

Quantity SAVE

397474  
(Fig. 1)

397749  
(Fig. 2)

397837  
(Fig. 3)

398101  
(Fig. 4)

### Closed-End Style

*With Locking Ramp and w/o Polarizing Tabs (Fig. 1)*

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397431	640426-2R	2	..... \$ .21	\$ .103	<b>(\$ .077)</b>
397440	640426-3R	3	..... .22	.149	<b>(.112)</b>
397458	640426-4R	4	..... .23	.158	<b>(.119)</b>
397466	640426-5R	5	..... .24	.185	<b>(.139)</b>
397474	640426-6R	6	..... .24	.204	<b>(.153)</b>

- Yellow • AWG: 20 \* Minimum order 10 pieces

Part No.	Cross Ref. No.	Positions	1	10	100
397520	640427-2R	2	..... \$ .21	\$ .113	<b>(\$ .085)</b>
397538	640427-3R	3	..... *	.122	<b>.10</b>
397546	640427-4R	4	..... .23	.127	<b>.118</b>
397554	640427-5R	5	..... .24	.185	<b>(.139)</b>
397562	640427-6R	6	..... .25	.198	<b>.145</b>

### With Locking Ramp and Polarizing Tabs (Fig. 2)

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397618	643817-2R	2	..... \$ .20	\$ .17	<b>(\$ .128)</b>
397626	643817-3R	3	..... .22	.138	<b>(.104)</b>
397634	643817-4R	4	..... .23	.14	<b>(.105)</b>
397642	643817-5R	5	..... .24	.149	<b>.138</b>
397651	643817-6R	6	..... .24	.159	<b>.145</b>

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397706	643818-2R	2	..... \$ .20	\$ .119	<b>(\$ .089)</b>
397714	643818-3R	3	..... .22	.179	<b>(.134)</b>
397722	643818-4R	4	..... .23	.17	<b>(.128)</b>
397731	643818-5R	5	..... .24	.199	<b>(.149)</b>
397749	643818-6R	6	..... .24	.179	<b>(.134)</b>

### Strain Relief Covers for Closed-End Style

Part No.	Cross Ref. No.	Positions	1	10	100
398696	643067-2R	2	..... \$ .20	\$ .16	<b>(\$ .12)</b>
398709	643067-3R	3	..... .24	.22	<b>(.165)</b>
398717	643067-4R	4	..... .33	.256	<b>(.17)</b>
398725	643067-5R	5	..... .67	.57	<b>(.428)</b>
398733	643067-6R	6	..... .29	.247	<b>(.185)</b>

### Feed-Thru Style

*With Locking Ramp and w/o Polarizing Tabs (Fig. 3)*

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397790	640599-2R	2	..... \$ .20	\$ .117	<b>(\$ .088)</b>
397802	640599-3R	3	..... .22	.129	<b>(.097)</b>
397811	640599-4R	4	..... .23	.158	<b>(.119)</b>
397829	640599-5R	5	..... .24	.172	<b>(.129)</b>
397837	640599-6R	6	..... .24	.199	<b>(.149)</b>

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397888	640600-2R	2	..... \$ .21	\$ .129	<b>(\$ .097)</b>
397896	640600-3R	3	..... .22	.149	<b>(.112)</b>
397917	640600-5R	5	..... .24	.179	<b>(.134)</b>
397925	640600-6R	6	..... .24	.199	<b>(.153)</b>

### With Locking Ramp and Polarizing Tabs (Fig. 4)

- Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397976	644465-2R	2	..... \$ .21	\$ .099	<b>(\$ .074)</b>
397984	644465-3R	3	..... .22	.119	<b>(.089)</b>
398004	644465-5R	5	..... .24	.175	<b>(.131)</b>

- Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
398063	644466-2R	2	..... \$ .21	\$ .099	<b>(\$ .074)</b>
398071	644466-3R	3	..... .22	.109	<b>.10</b>
398080	644466-4R	4	..... .23	.119	<b>.099</b>
398098	644466-5R	5	..... .24	.189	<b>(.142)</b>
398101	644466-6R	6	..... .24	.199	<b>(.149)</b>

### Strain Relief Covers for Feed-Thru Style

Part No.	Cross Ref. No.	Positions	1	10	100
398602	643071-2R	2	..... \$ .20	\$ .189	<b>(\$ .141)</b>
398611	643071-3R	3	..... .27	.245	<b>(.183)</b>
398629	643071-4R	4	..... .37	.327	<b>(.245)</b>
398637	643071-5R	5	..... .34	.316	<b>(.237)</b>
398645	643071-6R	6	..... .20	.166	<b>(.124)</b>

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

**KK® Series .156" (3.96mm)**  
**Pitch PCB Connectors**

### Bottom Entry

- Current: 5A
- Voltage: 250VAC
- Contact resistance: 6mΩ max.
- Insulation resistance: 50k MΩ min.
- Housing: nylon, UL94V-2
- Dielectric withstanding voltage: 1500VAC
- Contacts: brass or phosphor bronze w/ tin-lead plating

Part No.	Product No.	Positions	1	10	100
481588	09-52-3042R	4	..... \$ .41	\$ .386	\$ .367
481609	09-52-3062	6	..... .91	.86	.65

**KK® Series .156" (3.96mm)**  
**Pitch Crimp Terminal Housings**

- Voltage: 250VAC • Housing: nylon, UL94V-2
- Dielectric withstanding voltage: 1500VAC

### With Locking Ramp (KK Series 2139)

- Current:
  - brass – 5A max.;
  - phosphor bronze – 7A max.;
- Contact resistance: 6mΩ max.
- Insulation resistance: 50k MΩ min.

Part No.	Product No.	Positions	1	10	100
463427	09-50-3021R	2	..... \$ .20	\$ .096	\$ .088
463435	09-50-3031R	3	..... .20	.13	.124
463443	09-50-3041R	4	..... .25	.173	.165
463460	09-50-3061R	6	..... .31	.295	.257
463486	09-50-3081R	8	..... .40	.275	.248
463507	09-50-3101R	10	..... .26	.243	.225
463523	09-50-3121R	12	..... .61	.58	.495

**KK® Series .156" (3.96mm)**  
**Crimp Terminal**

### Trifurcon Terminal

- Current: 7A
- Wire-to-board
- Contact resistance: 20mΩ max.
- Insulation resistance: 500kMΩ min.

Part No.	Product No.	Positions	1	10	100
520057	09-91-0400	4	..... \$ .51	\$ .488	\$ .464
520209	09-91-2000	20	..... .94	.89	.87

**KK® Series .156" (3.96mm)**  
**Crimp Terminal**

### Trifurcon Terminal

- Brass with tin plating (cat ear)
- Prepackaged: please order in increments of 10

Part No.	Product No.	Description	10	100
462774	08-50-0165R	18-20 AWG (bag) ....	\$ .105	\$ .095

**SPOX™ .156" (3.96mm)**  
**Pitch Header**

### Right Angle, Friction Lock

- Current: 7A
- Voltage: 250V
- Housing:
  - 6/6 nylon, UL94V-2
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric withstanding voltage: 1500VAC/1 min.
- Contacts: brass w/ tin plating, 0.045" square posts

Part No.	Product No.	Positions	1	10	100
519881	09-75-2024	2	..... \$ .26	\$ .253	\$ .245

**.156" Crimp Contacts**

- Voltage rating: 250VAC • Current rating: 10A max.
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
  - \*A: brass, 0.012" bright tin plated
  - \*B: brass, 0.012" pre-tin plated
  - \*C: brass, 0.000030" gold over nickel plated
  - \*D: phosphor bronze, 0.012" bright tin plated
  - \*E: phosphor bronze, 0.00003" gold over nickel plated
- For use with .156" AMP housings (right)

Lower \$\$\$

\*Fig. 1  
(High-Force)

\*Fig. 2  
(Low-Force)

\*Fig. 3  
(Hooded - Dual Wipe)

- Prepackaged: please order in increments of 10

Part No.	Product No.	Desc.*	AWG	10	100	500
248866	640706-1	1A	18-24	\$ .18	\$ .165	\$ .152
248874	640706-2R	1B	18-24	.... .168	.14	.11
248882	640707-1	2A	18-24	.... .186	.167	.137
248891	770258-1R	2C	18-24	.... .35	.29	.27
248903	770522-1	3D	18-24	.... .19	.138	.123
248911	770258-2R	3E	18-24	.... .28	.19	.17

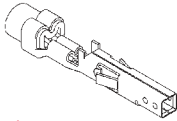
♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## .165" (4.2mm) Mini-Fit Jr.™ Contacts

- Voltage: 600V
- Current: 9A (†12A current rating)
- Dielectric withstanding voltage: 1500V
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Material:
- \*A: Brass (pre-plated tin over copper)
- \*B: Brass or copper (post-plated tin over nickel)
- \*C: Brass (post-plated tin over nickel)
- \*D: Phosphor bronze (pre-plated gold over nickel)



\*Fig. 1 (Male)

\*Fig. 2 (Female)

### Male Contacts

\*Prepackaged: please order in increments of 10

Part No.	Product No.	Desc.*	AWG	1	10	100
304725	39-00-0041	1A	18-24	...	...	...
304792	30490-2012	1D	18-24	...	...	...

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985	39-00-0040	1A	18-24	\$108.00

### Female Contacts

Part No.	Product No.	Desc.*	AWG	1	10	100
304670	44476-3112	2C	16	...	...	...
304733	39-00-0039	2A	18-24	...	...	...
304750	39-00-0182	2D	18-24	...	...	...
304776	44476-1112	2B	18-24	...	...	...
304784	44485-1212	2D	18-24	...	...	...
304813	39-00-0164	2C	18-24	...	...	...
304872	39-00-0047	2A	22-28	...	...	...

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307993	39-00-0038	2A	18-24	\$140.00



## .165" (4.2mm) Mini-Fit Jr.™ Connectors

- Fully isolated terminals to protect contacts from damage
- Use with strain relief or overmold applications
- Uses standard Mini-Fit series terminals
- UL/CSA/TUV approved
- Positive housing lock for secure mating retention
- Housing: 6/6 nylon natural, UL 94V-2 rated



Fig. 1

Fig. 2

Fig. 3

**Quantity SAVE**

### Double Row Receptacles

Part No.	Product No.	Fig.	Pos.	1	10	100
303562	39-01-2020	1	2	...	...	...
303571	39-01-2040	1	4	...	...	...
303589	39-01-2060	1	6	...	...	...
303597	39-01-2080	1	8	...	...	...
303600	39-01-2100	1	10	...	...	...
303618	39-01-2120	1	12	...	...	...
303642	39-01-2180	1	18	...	...	...
303651	39-01-2200	1	20	...	...	...
303677	39-01-2240	1	24	...	...	...

### Double Row Plugs

#### Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Pos.	1	10	100
303685	39-01-2021	2	2	...	...	...
303693	39-01-2041	2	4	...	...	...
303706	39-01-2061	2	6	...	...	...
303731	39-01-2121	2	12	...	...	...

### Double Row Headers

- Voltage: 600V
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

#### Right Angle Headers w/ Flange – Gold Plated, 30μ"m

Part No.	Product No.	Fig.	Pos.	1	10	100
304442	39-29-5023	3	2	...	...	...
304451	39-29-5043	3	4	...	...	...
304493	39-29-5123	3	12	...	...	...
304549	39-29-5223	3	22	...	...	...

Continued on next page



## .165" (4.2mm) Mini-Fit Jr.™ Equivalent Contacts



\*Fig. 1 (Male)



\*Fig. 2 (Female)

• Type\*:

- A: Tin over nickel over brass
- B: 15μ" gold over nickel over brass
- C: 30μ" gold over nickel over brass
- D: Tin over nickel over phosphor bronze
- E: 15μ" gold over nickel over phosphor bronze
- F: 30μ" gold over nickel over phosphor bronze

**Quantity SAVE**

\*Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
365747	39-00-0054	18-24	1C	...	...	...
401859	39-00-0076	18-24	1B	...	...	...
365798	39-00-0088	22-28	1C	...	...	...
365704	39-00-0096	16	1C	...	...	...
401841	39-00-0098	22-28	1B	...	...	...
401867	39-00-0099	16	1B	...	...	...
401824	39-00-0121	18-24	1A	...	...	...
401816	39-00-0123	22-28	1A	...	...	...
401832	39-00-0125	16	1A	...	...	...
401752	39-00-0126	22-28	2D	...	...	...
365886	39-00-0164	18-24	2C	...	...	...
365915	39-00-0166	22-28	2C	...	...	...
365835	39-00-0168	16	2C	...	...	...
401736	39-00-0170	18-24	2B	...	...	...
401728	39-00-0172	22-28	2B	...	...	...
401744	39-00-0174	16	2B	...	...	...
365851	39-00-0182	18-24	2F	...	...	...
365907	39-00-0184	22-28	2F	...	...	...
365827	39-00-0186	16	2F	...	...	...
401795	39-00-0195	18-24	2E	...	...	...
401787	39-00-0197	22-28	2E	...	...	...
401808	39-00-0199	16	2E	...	...	...
401701	39-00-0208	18-24	2A	...	...	...
401699	39-00-0210	22-28	2A	...	...	...
401710	39-00-0212	16	2A	...	...	...
401761	39-00-0214	18-24	2A	...	...	...
401779	39-00-0218	16	2D	...	...	...



## .165" (4.2mm) Connectors – Molex Mini-Fit Jr.™ Value Equivalents



Fig. 1

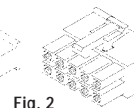


Fig. 2



Fig. 3

- Low profile design to accommodate height constraints
- UL rating: 94V-2
- Fully isolated terminals to protect contacts from damage
- Pitch: 0.165" (4.2mm)
- Positive locking housings
- Current: up to 9A
- Contact resistance: 10mΩ
- Voltage: 600V
- Temperature: -40°C to +150°C
- Housing: 6/6 Nylon Natural



Fig. 4

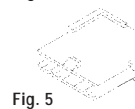


Fig. 5

**Quantity SAVE**

### Molex 5557 Series — Connector Equivalents

#### Receptacles, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364584	39-01-4030	1	3	...	...	...
364592	39-01-4040	1	4	...	...	...
364605	39-01-4050	1	5	...	...	...

#### Receptacles, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364736	39-01-2020	2	2	...	...	...
364744	39-01-2040	2	4	...	...	...
364752	39-01-2060	2	6	...	...	...
364761	39-01-2080	2	8	...	...	...
364779	39-01-2100	2	10	...	...	...
364787	39-01-2120	2	12	...	...	...
364795	39-01-2140	2	14	...	...	...
364808	39-01-2160	2	16	...	...	...
364824	39-01-2200	2	20	...	...	...
364832	39-01-2220	2	22	...	...	...
364841	39-01-2240	2	24	...	...	...

### Molex 5559 Series — Connector Equivalents

#### Plugs - Panel Mount w/ Ears, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364613	39-01-4032	3	3	...	...	...
364621	39-01-4052	3	5	...	...	...

#### Plugs - Panel Mount w/ Ears, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364859	39-01-2021	4	2	...	...	...
364867	39-01-2041	4	4	...	...	...
364875	39-01-2061	4	6	...	...	...
364883	39-01-2081	4	8	...	...	...
364891	39-01-2101	4	10	...	...	...
364904	39-01-2121	4	12	...	...	...
364912	39-01-2141	4	14	...	...	...
364921	39-01-2161	4	16	...	...	...

#### Plugs - Free Hanging w/o Ears, Single Row

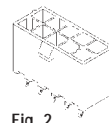
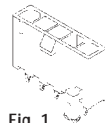
Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364630	39-01-4036	5	3	...	...	...
364648	39-01-4046	5	4	...	...	...
364656	39-01-4056	5	5	...	...	...



## .165" (4.2mm) Connectors – Molex Mini-Fit Jr.™ Value Equivalents (Continued)

Quantity SAVE

- Low profile design to accommodate height constraints
- Fully isolated terminals to protect contacts from damage
- Pitch: 0.165" (4.2mm)
- Positive locking housings
- Temperature: -40°C to +150°C
- Contact resistance: 10mΩ
- Housing: 6/6 Nylon Natural
- UL rating: 94V-2
- Voltage: 600V
- Current: up to 9A



### Molex 5566 Series PCB Header Equivalents

#### Vertical Single Row w/ Pegs & Drain Holes – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
364672	39-30-2035	R	1 3	\$.71	\$.466	(\$ .349)
364681	39-30-2045	R	1 4	\$.89	\$.55	(\$ .412)
364699	39-30-2056	R	1 5	1.25	.76	(\$ .57)

#### Vertical Dual Row without Pegs w/o Drain Holes – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
364939	39-28-1023	R	2 2	\$.59	\$.516	(\$ .387)
364947	39-28-1043	R	2 4	.77	.68	(\$ .504)
364955	39-28-1063	R	2 6	1.05	.88	(\$ .66)
364963	39-28-1083	R	2 8	1.19	.99	(\$ .75)
364971	39-28-1103	R	2 10	1.39	1.24	(\$ .93)
364980	39-28-1123	R	2 12	1.49	1.29	(\$ .96)
364998	39-28-1143	R	2 14	1.89	1.71	(\$ 1.28)
365000	39-28-1163	R	2 16	2.09	1.77	(\$ 1.32)
365018	39-28-1183	R	2 18	2.39	2.03	(\$ 1.52)
365026	39-28-1203	R	2 20	2.85	2.42	(\$ 1.81)
365034	39-28-1223	R	2 22	1.09	.92	(\$ .69)
365042	39-28-1243	R	2 24	3.19	2.66	(\$ 1.99)

#### Vertical Dual Row without Pegs w/o Drain Holes – Gold

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365051	39-29-0023	R	3 2	\$.74	\$.58	(\$ .432)
365069	39-29-0043	R	3 4	1.19	1.15	(\$ .86)
365077	39-29-0063	R	3 6	1.45	1.20	(\$ .90)
365085	39-29-0103	R	3 8	2.19	2.15	1.61
365093	39-29-0123	R	3 10	2.19	1.86	(\$ 1.39)
365106	39-29-0143	R	3 12	3.19	3.15	(\$ 2.36)
365114	39-29-0163	R	3 14	3.75	3.71	(\$ 2.78)
365122	39-29-0163	R	3 16	3.25	2.98	(\$ 2.23)
365131	39-29-0183	R	3 18	4.69	4.65	(\$ 3.48)
365149	39-29-0203	R	3 20	5.29	5.25	(\$ 3.93)
365157	39-29-0223	R	3 22	5.85	5.83	(\$ 4.37)
365165	39-29-0243	R	3 24	6.29	5.27	(\$ 3.95)

### Molex 5569 Series PCB Header Equivalents

#### Right Angle Single Row w/ Pegs – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
364728	39-30-3055	R	4 5	\$.99	\$.62	(\$ .46)

#### Right Angle Dual Row w/ Pegs – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365173	39-30-1020	R	4 2	\$.53	\$.514	(\$ .385)
365181	39-30-1040	R	4 4	.55	.468	(\$ .351)
365190	39-30-1060	R	4 6	.69	.521	(\$ .39)
365202	39-30-1080	R	4 8	.72	.62	(\$ .462)
365211	39-30-1100	R	4 10	1.05	.80	(\$ .54)
365229	39-30-1120	R	4 12	1.19	.91	(\$ .62)
365245	39-30-1160	R	4 16	1.55	1.19	(\$ .90)
365253	39-30-1180	R	4 18	1.39	1.16	(\$ .87)
365270	39-30-1220	R	4 22	2.15	1.94	(\$ 1.45)
365288	39-30-1240	R	4 24	2.19	1.86	(\$ 1.40)

#### Right Angle Dual Row w/ Pegs – Gold

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365325	39-30-1021	R	4 2	\$1.39	\$1.18	(\$ .88)
365333	39-30-1041	R	4 4	.95	.94	(\$ .71)
365341	39-30-1061	R	4 6	1.09	.93	(\$ .92)
365350	39-30-1081	R	4 8	1.49	1.45	(\$ 1.08)
365368	39-30-1101	R	4 10	1.55	1.32	1.25
365376	39-30-1121	R	4 12	2.15	1.82	1.64
365384	39-30-1141	R	4 14	2.45	2.41	(\$ 1.80)
365392	39-30-1161	R	4 16	2.85	2.42	2.20
365405	39-30-1181	R	4 18	3.25	2.76	2.55
365413	39-30-1201	R	4 20	2.79	2.54	2.44
365421	39-30-1221	R	4 22	4.25	4.22	(\$ 3.16)
365430	39-30-1241	R	4 24	4.75	4.73	(\$ 3.54)

### Molex 5569 PCB Header Equivalents (Cont.)

#### Right Angle Dual Row w/ Flanges – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365448	39-29-1028	R	5 2	\$.39	\$.348	(\$ .261)
365456	39-29-1048	R	5 4	.49	.435	(\$ .326)
365464	39-29-1068	R	5 6	.62	.527	(\$ .395)
365472	39-29-1088	R	5 8	.81	.68	(\$ .51)
365481	39-29-1108	R	5 10	.65	.59	(\$ .442)
365499	39-29-1128	R	5 12	1.05	.94	(\$ .70)
365501	39-29-1148	R	5 14	1.15	.97	(\$ .72)
365510	39-29-1168	R	5 16	1.55	1.37	(\$ 1.02)
365528	39-29-1188	R	5 18	1.55	1.15	(\$ .98)
365544	39-29-1228	R	5 22	2.95	2.60	(\$ 1.95)
365552	39-29-1248	R	5 24	1.99	1.86	(\$ 1.39)

#### Right Angle Dual Row w/ Flanges – Gold

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365561	39-39-5023	R	5 2	\$1.25	\$1.06	(\$ .80)
365579	39-29-5043	R	5 4	1.39	1.18	(\$ .89)
365587	39-29-5063	R	5 6	2.25	1.91	(\$ 1.36)
365595	39-29-5083	R	5 8	2.29	1.94	(\$ 1.45)
365608	39-29-5103	R	5 10	1.79	1.70	(\$ 1.27)
365616	39-29-5123	R	5 12	3.05	2.75	(\$ 2.06)
365624	39-29-5143	R	5 14	3.89	3.30	(\$ 2.47)
365632	39-29-5163	R	5 16	4.69	3.97	(\$ 2.97)
365641	39-29-5183	R	5 18	3.45	3.10	(\$ 2.32)
365659	39-29-5203	R	5 20	3.95	3.35	(\$ 2.51)
365667	39-29-5223	R	5 22	4.45	4.42	(\$ 3.31)
365675	39-29-5243	R	5 24	4.75	4.50	(\$ 3.37)

## Hand Tools for Mini-Fit Jr.



- 304928: Crimp tool wire range from 14-24 AWG
- 304936: Extraction tool
- 308030: Cuts & strips 14-24 AWG wires
- 227491: Cuts & strips 18-30 AWG wires

Part No.	Product No.	1	5
304928	63811-1000	\$47.29	\$45.46
304936	11-03-0044	19.99	18.99
308030	W-HT-1919	8.3"L Red	14.99 13.99
227491	W-HT-1921	8.3"L Yellow	14.99 13.99

More Tools on pages 283 – 286

## .098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Current rating: 7A AC/DC
- Withstanding volt.: 1500V/min.

78327: AMP50G female 6-pin housing connector • Material: nylon  
78319: AMP501T terminal pin • Material: tin-plated brass

\* Prepackaged: please order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78327	6-pin housing connector	0.94"	0.25"	0.74"	—	78300	\$.45	\$.364	\$.329	\$.294
78319	Power terminal pin, F	0.69"	—	—	0.09"	78327	*	.096	.084	.09



## .118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Current rating: 7A AC/DC
- Withstanding volt.: 1500V/min.

147379: ATX male 20-pin edge mount connector

- Material: nylon 66, UL-94V0
- Material of post: tin-plated brass
- Diameter of post: 0.045"
- Material: nylon 66, UL-94V0
- Material: tin-plated brass

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.53	\$.48	(\$ .36)
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.59	.53	.48	.43
147395	Power terminal pin, F	0.59"	—	—	0.068"	147387	*	.12	.11	.10

\* Prepackaged: please order in increments of 10

**JAMECO ValuePro**

## Power Connectors and Pins

### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C







### Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, below

### For 5.25" Disk Drives and Power Supplies



#### 42076 & 42068 Connector Housings:

- 0.200" pitch
- Keyed mating connectors
- See below for extraction tools, P/Ns 131887 & 131879


Part No.	Description	10	100	1000
109146	4-pin M vert. PCB mtg 	\$ .68	\$ .61	\$ .55
117568	4-pin M PCB mounting, horizontal edge mount 	.85	.72	.65
42076	4-pin M housing 	.12	.11	.10
42068	4-pin F housing 	.20	.15	.13
42730	M crimp pin for 42076 	.112	.078	.067
42650	F crimp pin for 42068 	.10	.07	.06

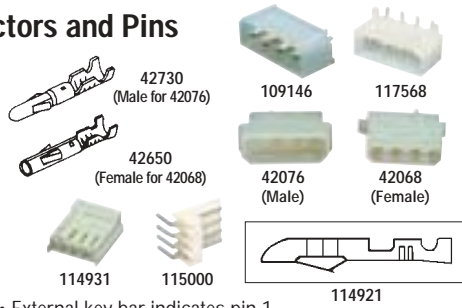
### For 3.5" Disk Drives and Power Supplies

- 0.100" pitch

Part No.	Description	10	100	1000
114931	4-pin F housing 	\$ .19	\$ .17	\$ .15
114921	F crimp pin for 114931 	.11	.095	.08

Part No.	Description	1	100	1000
115000	4-pin M rt. angle PCB mounting 	\$ .35	\$ .31	\$ .28





\* Prepackaged: please order in increments of 10

## HCS-125 .330" (8.38mm) Pitch Pin and Socket


- Meets the need for a connector system rated at greater than the industry standard 12A per circuit
- Enhanced version of 0.125" connectors
- Positive locks
- Fully isolated terminals
- Voltage: 600V • Current: 20A
- Dielectric withstanding voltage: 1500VAC
- Housing: nylon UL94V-2 rated
- Accommodates wires 18-10AWG



### Receptacle Housing

Part No.	Product No.	Pos.	1	10	100
462483	03-12-1026 	2	\$ .53	\$ .494	\$ .447
462504	03-12-1046 	4	.75	.71	.494

### Plug Housing Panel Mount

Part No.	Product No.	Pos.	1	10	100
462555	03-12-2025 	2	\$ .69	\$ .63	\$ .469

### Plug Housing Free Hanging


Part No.	Product No.	Pos.	1	10	100
462601	03-12-2046 	4	\$ .75	\$ .71	\$ .523

## Non-Insulated Terminal D-Sub Crimping Tool

### 14-26 AWG


- Heavy-duty metal tool with cutter and insulated handles
- See above for crimp pins
- Coiled spring return
- Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99443	HT202A 	\$9.49	\$8.55	\$7.69	\$6.95

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

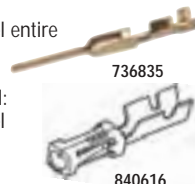
 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend  
 New Sale Lower\$ QtySave


## AMP AMPMODU™ Pin & Receptacle Contacts

- Plating:  
 A: gold flash over 50µ" nickel entire area, 30µ" gold on contact area;  
 B: 30µ" gold over 50µ" nickel;  
 C: gold flash over 50µ" nickel entire contact, 15µ" gold on contact area;  
 D: 15µ" gold in contact area, 100µ" ~ 200µ" bright tin lead, all over 50µ" nickel;  
 E: preplated 50µ" ~ 150µ" bright tin;  
 F: 30µ" gold in contact area, 100µ" ~ 200µ" bright tin lead, all over 50µ" nickel
- Material: PB=phosphor bronze; BC= beryllium copper








\* Prepackaged: please order in increments of 10






### Pin w/ Insulation Support, Crimp Snap-In (MOD IV)

Part No.	Product No.	Material	Plating	1	10
736835	102107-2 	PB	A	\$ .36	\$ .33

### Standard Pressure Receptacle Contacts (MOD IV)

Part No.	Product No.	Material	Plating	1	10
527486	87523-6 	PB	E	*	\$ .16
527419	1-87523-6	PB	D	.25	.24
987845	87667-1 	BC	B	*	Call
527507	87667-2 	BC	A	*	.34
841352	87667-5 	BC	C	*	.29
743082	1-87756-6 	PB	D	*	.24

### Receptacle, Crimp Snap-In (MOD IV 1/2)

Part No.	Product No.	Material	Plating	1	10
987079	87046-1 	BC	C	*	Call
840675	87046-3 	BC	A	*	.378
894016	102548-3 	BC	C	*	Call
737379	102548-6 	BC	A	*	.378
737707	103171-5 	PB	F	*	.243

\* Please call or visit our website for minimum order quantity & pricing

## Extraction Tools for Crimp Pins

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"



- See above for crimp pins
- 131887: Male tool for 42730
- 131879: Female tool for 42650










Part No.	Product No.	1	10
131887	HT319C 	\$13.45	\$12.25
131879	HT319B 	13.95	10.46

## AMP AMPMODU™ .100" (2.54mm) Receptacles

### Single Row, Non-Polarized, Crimp Snap-In (MOD IV)

For more AMP Receptacles visit [www.Jameco.com](http://www.Jameco.com)










- Black thermoplastic, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
757345	7-87499-2 	1	0.105	\$ .25	\$ .233
526871	87499-3 	2	0.205	.99	.95
759711	87499-4 	2	0.205	.40	.371
526889	87499-5 	3	0.305	.58	.435
526897	87499-7 	4	0.405	.55	.52
743031	1-87499-1 	6	0.605	.50	.466
987642	87499-1 	7	0.705	*	Call
893419	1-87499-5 	9	0.905	*	Call
743040	1-87499-7 	10	1.005	.66	.60

### Single Row w/ Detents, Polarized, Crimp Snap-In (MOD IV)

- Glass filled nylon, flame retardant












Part No.	Product No.	Pos.	Width (in.)	1	10
496122	102241-1 	3	0.300	\$ .30	\$ .282
496270	102241-2 	4	0.400	.28	.248
496245	102241-4 	6	0.600	.30	.266
737272	102241-5 	7	0.700	.47	.427
737281	102241-6 	8	0.800	.43	.405
737299	102241-8 	10	1.000	.63	.504
745011	1-102241-0 	12	1.200	.82	.74
745029	1-102241-2 	14	1.400	.77	.70
745037	1-102241-3 	15	1.500	1.04	.95

### Double Row, Non-Polarized, Crimp Snap-In, Short Entry (MOD IV)

- Glass filled nylon, flame retardant






Part No.	Product No.	Pos.	Width (in.)	1	10
753264	5-87456-0 	4	0.205	\$1.29	\$1.21
759674	87456-1 	6	0.305	1.25	1.13
759691	87456-2 	6	0.305	1.06	1.02
841070	87456-3 	8	0.405	1.29	1.21
841109	87456-5 	10	0.505	.93	.92
743007	1-87456-1 	16	0.805	1.55	1.38
743015	1-87456-2 	16	0.805	1.47	1.26
743023	1-87456-6 	20	1.005	1.55	1.52
945063	4-87456-0 	50	2.505	*	Call

### Double Row w/ Detents & Strain Relief, Polarized (MOD IV)

- Black thermoplastic, flame retardant



Part No.	Product No.	Pos.	Width (in.)	1	10
841387	87922-1 	10	0.500	\$1.95	\$1.92
987992	87922-4 	16	0.800	*	Call
988039	87922-5 	18	0.900	*	Call

\* Please call or visit our website for minimum order quantity & pricing

**AMPMODU™ .100"  
(2.54mm) Receptacles****Double Row, Center Polarized,  
Crimp Snap-In (MOD IV)**

496309



- Black thermoplastic, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
496309	102387-1	10	0.680	\$1.16	\$ .95
496157	102387-2	14	0.880	1.45	1.18
496165	102387-3	16	0.980	1.47	1.35
496173	102387-4	20	1.180	1.65	1.62
745053	1-102387-3	44	2.380	3.65	3.40
739673	1-102387-1	60	3.180	4.05	3.68
739681	1-102387-2	64	3.380	4.45	3.59

**Double Row w/ Detents,  
Polarized, Crimp Snap-In  
(MOD IV)**

- Glass filled nylon, flame retardant



496165

Part No.	Product No.	Pos.	Width (in.)	1	10
841168	87631-1	6	0.300	\$ .78	\$ .76
841184	87631-2	6	0.300	1.00	.91
841221	87631-3	8	0.400	1.35	1.17
841248	87631-4	8	0.400	1.23	1.00
841272	87631-5	10	0.500	1.35	1.25
841299	87631-7	12	0.600	1.45	1.30
841328	87631-8	12	0.600	1.44	1.30
759738	87631-9	14	0.700	1.55	1.34
743058	1-87631-0	14	0.700	1.47	1.37
746582	1-87631-1	16	0.800	1.86	1.53
743066	1-87631-2	16	0.800	1.65	1.50
746591	1-87631-5	20	1.000	1.85	1.69
743074	1-87631-6	20	1.000	1.75	1.59
746603	1-87631-9	24	1.200	2.05	1.78
749610	2-87631-0	24	1.200	2.55	2.27
749628	2-87631-1	26	1.300	2.45	2.16
838701	2-87631-2	26	1.300	2.29	1.95
911761	2-87631-4	28	1.400	★	Call
749636	2-87631-6	30	1.500	1.95	1.89
841803	3-87631-6	40	2.000	2.45	2.39

★ Please call or visit our website for minimum order quantity &amp; pricing

**Keying Plugs**

840721:

Plugs directly into housing  
526926: Plugs into standard  
or intermediate pressure  
receptacle contacts

840721

526926

- Prepackaged: please order in increments of 10

Part No.	Product No.	10	100
840721	87077-2	\$ .116	\$ .09
526926	86286-1	.15	.14

www.Jameco.com

For additional AMP  
Headers and Receptacles  
visit our website today.**AMP AMPMODU™ .100" (2.54mm) Standard Profile Shrouded Headers**

- Housing: UL94V-0, black thermoplastic
- Insulation resistance: 5,000M $\Omega$  min. initial
- Dielectric with standing voltage: 750V @ sea level
- Operating temp.: -65°C to 105°C
- Current rating: 3A max. per contact
- 0.100" (2.54mm) centers w/ 0.025" square posts, copper alloy
- Plating: A: Duplex plated, 0.000030 min. gold on contact area, 0.0001-0.0002 min. tin/lead on solder area, w/ entire post underplated 0.000050 min. nickel;  
B: Duplex plated, 0.000015 min. gold on contact area, 0.0001-0.0002 min. tin/lead on solder area, w/ entire post underplated 0.000050 min. nickel;  
C: 0.000100-0.000200 tin/lead, over 0.000050 nickel on entire post



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Fig. 5

For more AMP Headers  
visit [www.Jameco.com](http://www.Jameco.com)**Straight w/ Stand-Offs,  
Single Row (MOD II) – Fig. 1**

Part No.	Product No.	Contacts	Plating	1	10
737889	103414-1	3	A	\$1.25	\$1.15
841117	3-102202-4	3	B	1.16	1.06
759404	8-102202-4	3	B	1.25	1.04
746902	103080-1	3	C	1.22	1.17
737897	103414-2	4	A	1.35	1.24
737176	102202-1	4	B	1.28	1.18
752739	5-102202-1	4	B	1.31	1.09
737900	103414-3	5	A	2.05	1.76
737184	102202-2	5	B	1.69	1.49
894307	103080-3	5	C	2.34	1.95
737918	103414-4	6	A	2.09	1.80
737192	102202-3	6	B	1.69	1.55
746718	102202-4	7	B	1.95	1.80
746970	103414-6	8	A	1.95	1.94
737205	102202-5	8	B	1.31	1.20
737213	102202-7	10	B	2.45	2.07
893793	102202-9	12	B	3.25	2.89
744966	1-102202-3	16	B	3.29	2.81

**Right Angle w/ Stand-Offs,  
Single Row (MOD II) – Fig. 2**

Part No.	Product No.	Contacts	Plating	1	10
737854	103361-1	3	A	\$1.27	\$1.15
841141	3-102203-4	3	B	1.28	1.16
737862	103361-2	4	A	1.69	1.35
737221	102203-1	4	B	1.59	1.28
746777	102523-1	4	C	1.35	1.12
746937	103361-3	5	A	1.99	1.72
737230	102203-2	5	B	1.95	1.67
752747	5-102203-2	5	B	1.85	1.57
737871	103361-4	6	A	2.05	1.76
737248	102203-3	6	B	1.99	1.72
746945	103361-5	7	A	2.20	1.83
746726	102203-4	7	B	2.09	1.75
737256	102203-5	8	B	2.29	1.97
746961	103361-8	10	A	2.19	2.18
737264	102203-7	10	B	3.85	3.08
746734	102203-9	12	B	4.24	3.53
744982	1-102203-1	14	B	3.19	2.73

**Straight w/ Detent Windows, 0.066" End  
Dim., Double Row (MOD II) – Fig. 3**

Part No.	Product No.	Contacts	Plating	1	10
737627	103168-1	6	A	\$1.55	\$1.38
737408	102618-1	6	B	1.04	.95
752763	5-102618-1	6	B	1.15	1.05
737635	103168-2	8	A	★	Call
737416	102618-2	8	B	1.55	1.37
737643	103168-3	10	A	2.25	2.04
752771	5-103168-3	10	A	2.25	2.03
737424	102618-3	10	B	1.65	1.47

**Straight w/ Detent Windows, 0.066" End  
Dim., Double Row (MOD II) (Continued) – Fig. 3**

Part No.	Product No.	Contacts	Plating	1	10
894673	103168-4	12	A	\$2.26	\$2.19
737432	102618-4	12	B	1.85	1.65
737651	103168-5	14	A	2.65	2.42
737441	102618-5	14	B	2.39	2.16
841133	87589-3	14	C	2.70	2.49
894711	103168-6	16	A	3.10	2.97
737459	102618-6	16	B	2.25	2.04
894753	103168-7	18	A	3.40	3.06
737467	102618-7	18	B	4.35	3.92
737660	103168-8	20	A	4.25	3.84
737475	102618-8	20	B	3.19	2.90
887852	1-103168-0	24	A	4.75	4.32
739711	1-102618-0	24	B	3.75	3.41
739788	1-103168-1	26	A	5.29	4.82
739729	1-102618-1	26	B	4.15	3.58
739796	1-103168-8	40	A	7.45	6.73
887772	1-102618-8	40	B	8.19	7.46
907112	2-103168-3	50	A	9.89	8.97

**Straight w/ Detent Windows, 0.150" End  
Dim., Double Row (MOD II) – Fig. 4**

Part No.	Product No.	Contacts	Plating	1	10
894825	103169-2	8	A	\$1.95	\$1.76
737678	103169-3	10	A	2.35	2.10
737483	102619-3	10	B	1.85	1.70
737686	103169-4	12	A	2.65	2.40
737491	102619-5	14	B	2.39	2.16
894921	103169-6	16	A	4.35	3.89
737504	102619-6	16	B	3.95	3.51
737694	103169-8	20	A	3.85	3.48
737512	102619-8	20	B	3.19	2.88
739809	1-103169-0	24	A	5.79	5.30
887879	1-103169-1	26	A	4.65	4.29
739737	1-102619-1	26	B	3.35	3.58
887916	1-103169-5	34	A	9.15	8.33

**Right Angle w/ Detent Window, 0.066" End  
Dim., Double Row (MOD II) – Fig. 5**

Part No.	Product No.	Contacts	Plating	1	10
737563	103166-1	6	A	\$1.34	\$1.15
737571	103166-2	8	A	1.79	1.50
737387	102617-2	8	B	1.45	1.22
737580	103166-3	10	A	★	Call
894420	103166-4	12	A	2.33	2.19
737598	103166-5	14	A	2.76	2.61
737601	103166-8	20	A	4.19	3.60
737395	102617-8	20	B	3.45	2.93
987765	87579-7	20	C	3.38	2.99
887801	1-103166-0	24	A	7.35	6.59

★ Please call or visit our website for minimum order quantity &amp; pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## AMPMODU™ .100" (2.54mm) Standard Profile Shrouded Headers (Continued)

**AMP**



Fig. 5 Fig. 6

**Right Angle w/ Detent Window, 0.066" End Dim., Double Row (MOD II) (Continued) – Fig. 5**

Part No.	Product No.	Contacts	Plating	1	10
887730	1-102617-0♣	24	B .....	\$4.18	\$3.93
739770	1-103166-8♣	40	A .....	7.79	6.28
887756	1-102617-8♣	40	B .....	★	Call

**Right Angle w/ Detent Window, 0.150" End Dim., Double Row (MOD II) – Fig. 6**

Part No.	Product No.	Contacts	Plating	1	10
894551	103167-1♣	8	A .....	★	Call
737619	103167-2♣	10	A .....	2.05	2.07
894091	102570-3♣	10	B .....	1.65	1.62
887721	1-102570-1♣	26	B .....	3.75	3.52

★ Please call or visit our website for minimum order quantity & pricing

## AMP AMPMODU™ Locking Clip Housings & Contact



- Mates with 0.025" (0.64mm) square posts
- Contact current: 3A
- Design permits end-to-end stacking
- 94V-0 rated glass-filled polyester housing
- Termination resistance: 12mΩ max (gold); 16mΩ max. (tin)

For more AMP Housings visit [www.Jameco.com](http://www.Jameco.com)

### Single Row

Part No.	Product No.	Positions	1	10	100
759658	87175-2 ♣	1 .....	\$.79	\$.73	\$.68
840780	87175-6 ♣	2 .....	.69	.64	.63
840819	87175-8 ♣	3 .....	1.13	1.03	.76
742961	1-87175-0 ♣	4 .....	.95	.82	.77
742979	1-87175-2 ♣	5 .....	.98	.85	.78
746566	1-87175-4 ♣	6 .....	1.69	1.54	1.42

### Locking Clip Contact

- Plating: 30μ" gold in contact area, gold flash on remainder, over 50μ" nickel



Part No.	Product No.	AWG	1	10	100
840755	87165-1 ♣	26-22 .....	\$.41	\$.38	\$.35

## PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174	M505 ♣	Bench press	7.0 ..	\$179.95	\$159.95

### M505 Accessories

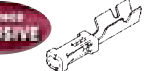
Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27182	M507 ♣	Cable cutter	0.9 ..	\$66.95	\$61.95
27203	M510 ♣	Base plate	0.5 .....	29.75	27.95

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## .100" Non-Polarized Connector Housings & Crimp Pins

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, see pg 141)
- Current rating: 1A
- Housing material: plastic
- Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use 159266 pin crimper, pg 285 and 100766 crimp pin, below



### Single Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
100812	SCH2 ♣	2 .....	\$.26	\$.23	\$.21	\$.17
157383	SCH3 ♣	3 .....	.27	.24	.22	.18
100803	SCH4 ♣	4 .....	.28	.25	.23	.19
163686	SCH5 ♣	5 .....	.30	.27	.25	.22
103211	SCH6 ♣	6 .....	.34	.31	.27	.21
103203	SCH8 ♣	8 .....	.39	.35	.29	.25
103191	SCH10 ♣	10 .....	.42	.39	.36	.31
103182	SCH20 ♣	20 .....	.59	.54	.468	.42
103158	SCH36 ♣	36 .....	.54	.50	.433	.389

### Double Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
103254	DCH8 ♣	8 .....	\$.59	\$.53	\$.45	\$.39
157421	DCH10 ♣	10 .....	.69	.62	.55	.49
157438	DCH14 ♣	14 .....	.73	.71	.69	.59
103238	DCH16 ♣	16 .....	.87	.78	.70	.64
103230	DCH20 ♣	20 .....	.99	.89	.79	.69
157462	DCH40 ♣	40 .....	1.09	.99	.89	.75
157471	DCH50 ♣	50 .....	.65	.59	.53	.48

♣ Blue Part No. = Limited Quantity Available

### Crimp Pins for Single/Double Row Housings

- Prepackaged: please order in increments of 10

Part No.	Cross Ref.	Contacts	10	100	1000
100766	FCH1 ♣	Female pin .....	\$.154	\$.121	\$.077
145358	MCH1 ♣	Male pin .....	.15	.135	.12

## .100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, pg 156



### Straight Male Headers

Part No.	Description	1	10	100	1000
67812	10-pin ♣	\$.45	\$.399	\$.365	\$.319
68179	16-pin ♣	.44	.40	.35	.32
68292	20-pin ♣	.55	.505	.419	.247
68372	26-pin ♣	.59	.437	.364	.219
68582	34-pin ♣	.79	.65	.46	.31
181105	40-pin ♣	1.25	.97	.73	.508

## AMP Pistol Hand Grip Tool

- Use with AMPMODU IDC Connectors • Manual tool



Part No.	Product No.	1	3
526643	465644-1♣	\$15.99	\$14.99

## .100" Low Profile Keyed Shrouded Header & Connector CD-ROM 4-Pin Headers and Connector



- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000VAC/ 1 minute
- Pin material: tin-plated brass
- Recommend crimp tool P/N 99443, pg 285
- \* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
152741	Straight header ♣	\$.45	\$.39	\$.35	\$.29
152726	Rt. angle header ♣	.55	.50	.40	.30
152733	Single w/ latch ♣	.37	.30	.25	.16
181673	Female pins ♣	*	.096	.072	.082

† P/N 152733 requires 4 pins (P/N 181673)

## AMP .100" AMPLATCH™ Ribbon Cable Connectors

**Low-Profile Shrouded Headers w/ 0.150" End Dimension, Dual Row, 0.100" Centers**

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze
- Plating:  
A: 30μ" gold in contact area, 100μ" ~ 200μ" tin/lead on solder tail, all over 50μ" nickel;  
B: 30μ" gold on mating area, 100μ" min. tin on solder end, all over 50μ" nickel;  
C: 15μ" gold in contact area, 100μ" ~ 200μ" tin/lead on solder tail, all over 50μ" nickel;  
D: 15μ" min. gold on mating area, 100μ" min. tin on solder end, all over 50μ" on entire post



### Straight

Part No.	Product No.	Pos.	Plating	1	10	100
496051	103309-1	10	A .....	\$.59	\$.57	\$.55
850216	5103308-1 ♣	10	D .....	.65	.61	.56
737715	103309-2♣	14	A .....	.89	.84	.78
753571	5103309-2 ♣	14	B .....	.85	.77	.74
850241	5103308-2 ♣	14	D .....	1.25	1.15	1.09
753580	5103309-3 ♣	16	B .....	1.39	1.15	.99
850241	5103308-3 ♣	16	D .....	1.25	1.15	1.09
496093	103309-5	20	A .....	1.39	1.29	1.09
753598	5103309-5 ♣	20	B .....	1.39	1.25	1.19
496085	103308-5	20	C .....	1.22	1.11	1.05
753539	5103308-5 ♣	20	D .....	1.69	1.54	1.45
753601	5103309-6 ♣	26	B .....	1.65	1.48	1.39
496296	103308-6	26	C .....	1.49	1.39	1.35
850275	5103308-6 ♣	26	D .....	1.45	1.15	.99
737723	103309-7	34	A .....	1.99	1.49	1.35
753547	5103308-7 ♣	34	D .....	1.85	1.49	1.35
737731	103309-8♣	40	A .....	2.09	1.89	1.82
496114	103308-8	40	C .....	1.85	1.71	1.61
753555	5103308-8 ♣	40	D .....	1.45	1.32	1.25
739825	1-103309-0♣	50	A .....	2.65	2.27	2.26
739817	1-103308-0♣	50	C .....	1.99	1.79	1.53

Continued on next page

## AMP .100" AMPLATCH™ Ribbon Cable Connectors (Continued)

Right Angle See page 155 for plating specifications

Part No.	Product No.	Pos.	Plating	1	10	100
496131	103310-1♣	10	C	.....\$55	\$.53	\$.51
753619	5103310-1♣	10	D	......89	.74	.65
737791	103311-1♣	10	A	......65	.62	.61
753635	5103311-1♣	10	B	......59	.57	.56
737740	103310-2♣	14	C	......89	.81	.75
753627	5103310-2♣	14	D	......19	.95	.86
737803	103311-2♣	14	A	.....2.75	2.49	2.38
737758	103310-3♣	16	C	......62	.59	.59
951332	5103310-3♣	16	D	......95	.79	.69
737811	103311-3♣	16	A	.....1.05	.95	.89
737766	103310-5♣	20	C	.....1.09	.99	.97
951375	5103310-5♣	20	D	.....★	Call	Call
737820	103311-5♣	20	A	.....1.59	1.42	1.34
737774	103310-6♣	26	C	.....1.29	1.19	1.09
737838	103311-6♣	26	A	.....2.15	1.59	1.47
737782	103310-8♣	40	C	.....4.55	4.19	3.49
737846	103311-8♣	40	A	.....2.89	2.59	2.45
739833	1-103310-0♣	50	C	.....2.65	2.39	2.05

★ Please call or visit our website for minimum order quantity and pricing

## .100" & 2mm IDC Socket Connectors

### Double Row

- Mates with 2 rows of .025" Sq. or Dia. posts on patterns of .100" centers (male headers, above right)
- Current rating: 1A
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimping P/N 73252, below

### Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
32492	S10♣	10	.....\$29	\$.25	\$.19	\$.15
119467	S16♣	16	......35	.29	.22	.17
32522	S20♣	20	......45	.339	.265	.191
32563	S26♣	26	......49	.385	.319	.209
32644	S34♣	34	......53	.42	.38	.27
32678	S40♣	40	......59	.48	.42	.31
100386	IDC440♣★	44 (2mm)	.99	.89	.71	.53
32708	S50♣	50	......69	.58	.469	.365
32759	S60♣	60	......90	.82	.74	.60

\*2mm pin spacing

### Non-Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
138376	SN10♣	10	.....\$39	\$.34	\$.31	\$.28
138325	SN20♣	20	......45	.405	.324	.243
138333	SN26♣	26	......39	.35	.32	.24
138341	SN34♣	34	......45	.40	.35	.28
138350	SN40♣	40	......49	.45	.39	.29
138368	SN50♣	50	......65	.59	.47	.35

## IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73252	HT214♣	.....\$15.95	\$14.39	\$12.95

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## .100" (2.5mm) Straight Male Headers

### With Standard Latch

#### Double Row

- 0.1" contact center
- Mount vertical
- Keying slot
- Use with IDC socket connectors, below left

Part No.	Description	1	10	100	500
117664	10-pin♣	.....\$1.55	\$1.38	\$1.18	\$.73
71830	20-pin♣	.....1.45	1.31	1.18	1.00
71933	26-pin♣	.....1.49	1.34	1.07	.80
72216	50-pin♣	.....1.89	1.70	1.54	1.39

### Other Manufacturers — Great Deals

687720	14-pin	.....\$1.31	\$1.17	\$1.03	\$.94
687711	40-pin	.....1.59	1.39	1.09	.91

## .100" (2.54mm) Female Header Receptacles

- Gold plated contacts
- 0.1" contact center

### Right Angle Mount (Side Entry)

Part No.	Contacts	Type	1	10	100	500
71160	20♣	Double row	..\$1.50	\$1.32	\$1.19	\$1.02

### Vertical Mount (Top Entry)

Part No.	Contacts	Type	1	10	100	500
70755	8♣	Single row	....\$.63	\$.56	\$.462	\$.371
200782	12♣	Single row	......93	.82	.449	.394
308592	16♣	Single row	......67	.55	.36	.28
308567	20♣	Single row	......69	.57	.37	.289
70720	16♣	Double row	......89	.79	.72	.65
70827	20♣	Double row	....1.19	1.07	.86	.64
105056	30♣	Double row	....1.09	.98	.88	.74
111705	40♣	Double (Tin)	..1.42	1.27	1.09	.98

### Other Manufacturers — Great Deals

454539	30	Double row	....\$.99	\$.89	\$.71	\$.53
163862	34	Double row	....1.05	.94	.85	.71

## Cinch .085" (2.16mm) Density Miniature Ribbon Connector

### Solder Cup, Metal Shell

- Standard 90° orientation, commercial end entry cable
- Terminates discrete wires with ultra-low resistance solder connections
- Metal shell provides grounding and shielding capability
- All plugs lock with INSTALATCH passive latch features for automatic latching
- Insulator: blue UL94V-0 rated diallyl phthalate type MDG
- Contact: copper alloy • Shell: steel
- Contact plating: select gold over 50μ" select nickel (standard); 30μ" select gold over 50μ" select nickel
- Shell plating: zinc w/ chromate coating
- Voltage rating: 500VAC/125VAC
- Withstanding voltage: 1200VAC<sub>RMS</sub>
- Contact rating: 5A • Contact resistance: 6mΩ
- Insulation resistance: 5000MΩ min. initial
- Bail latch, 0.116" hole

Part No.	Product No.	Pos.	1	25	50	100
457924	57-40500	50	..\$6.69	\$6.02	\$4.82	\$4.80

## .100" IDC Plug Connectors

### Double Row

- Plastic
- 0.100" x 0.100" grid
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, below left

Part No.	Cross Ref. No.	Contacts	1	10	100
29188	P40♣	40	...\$1.95	\$1.75	\$1.49
29218	P50♣	50	....2.45	2.19	1.87

## PCB Centronics Connectors



- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151	36-contact F, rt angle♣	....\$3.55	\$3.19	\$2.87
72081	50-contact F, rt angle♣	....5.94	5.34	4.74

## IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73252 IDC crimping tool, below left

Part No.	Description	1	10	100
13849	36-pin male♣	.....\$1.99	\$1.75	\$1.49

## Card-Edge Connectors

- Fits all PC boards • 0.054" to 0.070" thick
- Solder Eyelet 0.140" Spacing Between Rows
- Contact centers: 0.156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39117	22/44♣	Gold	.....\$2.95	\$2.65	\$2.38

### Solder Tail 0.200" Spacing Between Rows

- Contact centers: 0.100"
- Without mounting ears

Part No.	Position	Contacts	1	10	100
40695	31/62♣	Tin (PC/AT)	\$1.12	\$.99	\$.78

## Ribbon Cable Assemblies

- Metal connector • 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

Part No.	Description	1	10	100
12407	4' DB25 M-F♣	.....\$5.39	\$4.74	\$4.31
208582	6' DB9 M-F♣	.....4.74	4.26	3.83

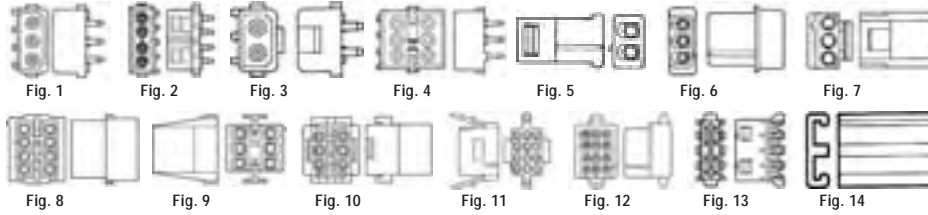
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## Commercial MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing
- Hot side egg crate design for safety
- Insulation resistance: 500MΩ min. initial between adjacent circuits
- Durability: 50 cycles, mating and unmating
- Voltage rating: 350VAC or VDC
- Dielectric withstanding voltage: 1.5KVAC between adjacent circuits
- UL94V-2 rated housing



\* Prepackaged: please order in increments of 10

### PCB In-Line Vert. Pin Header w/ Detent Lock (Fig. 1)

Part No.	Product No.	Positions	1	10	100
679607	350210-1R	3	..... \$ .56	..... \$ .54	..... \$ .523
421358	350211-1R	4	..... .65	..... .59	..... .534
679674	350214-1R	16	..... .95	..... .90	..... .86

### PCB In-Line Vert. Socket Header w/ Detent (Fig. 2)

Part No.	Product No.	Positions	1	25	50
679682	770997-1R	4	..... \$ .96	..... \$ .91	..... \$ .87

### PCB In-Line Vert. Pin Header w/ Positive Lock (Fig. 3)

Part No.	Product No.	Positions	1	25	50
679586	350539-1R	2	..... \$ .46	..... \$ .44	..... \$ .418
679594	350541-1R	3	..... 1.22	..... 1.16	..... 1.12
679615	350543-1R	4	..... 1.03	..... .98	..... .93

### PCB Dual Row Vertical Pin Header w/ Positive Lock (Fig. 4)

Part No.	Product No.	Positions	1	25	50
679623	350425-1R	6 (2 x 3)	..... \$1.65	..... \$1.47	..... \$1.31
679631	350212-1R	8 (2 x 4)	..... .89	..... .83	..... .77
679640	1-380991-0R	10 (2 x 5)	..... 2.15	..... 2.04	..... 1.95
679658	350213-1R	12 (2 x 6)	..... 2.25	..... 2.16	..... 2.07
679666	350214-1R	16 (2 x 8)	..... 2.85	..... 2.73	..... 2.60

### In-Line Housing Plug, Free Hanging (Fig. 5)

Part No.	Product No.	Positions	1	10	100
527056	1-480318-0R	2	..... \$ .21	..... \$1.16	..... \$1.02
527099	1-480303-0R	3	..... .22	..... .204	..... .172
527101	1-480424-0R	4	..... .22	..... .207	..... .193
679383	770827-1R	4	..... .35	..... .332	..... .314

### In-Line Housing Cap, Free Hanging (Fig. 6)

Part No.	Product No.	Positions	1	10	100
679308	1-480350-0R	1	..... \$ .20	..... \$ .139	..... \$ .098
679316	1-480351-0R	1	..... *	..... .118	..... .099
527187	1-480319-0R	2	..... *	..... .116	..... .087
679324	1-480305-0R	3	..... .21	..... .207	..... .19
527195	1-480426-0R	4	..... .26	..... .239	..... .217

### In-Line Housing Plug, Free Hanging w/ Positive Lock (Fig. 7)

Part No.	Product No.	Positions	1	10	100
679367	1-480721-0R	3	..... \$ .73	..... \$ .71	..... \$ .70
679375	1-480722-0R	4	..... .90	..... .85	..... .81

### Dual Row Housing Cap w/ Positive Lock (Fig. 8)

Part No.	Product No.	Positions	1	25	50
679332	1-480340-0R	6 (2 x 3)	..... \$ .63	..... \$ .62	..... \$ .56
679341	1-480345-0R	8 (2 x 4)	..... .65	..... .63	..... .61
679359	1-480339-0R	10 (2 x 5)	..... .85	..... .82	..... .75

### Motor Mount, Dual Row Plug w/ Positive Lock (Fig. 9)

Part No.	Product No.	Positions	1	25	50
679391	1-480283-0R	8 (2 x 3)	..... \$ .43	..... \$ .41	..... \$ .39
679404	1-480285-0R	10 (2 x 5)	..... .85	..... .81	..... .77
679412	1-480287-0R	12 (2 x 6)	..... 1.12	..... 1.04	..... 1.02
679421	1-480438-0R	16 (2 x 8)	..... 1.55	..... 1.47	..... 1.39

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

### Motor Mount, Dual Row Cap w/ Positive Lock (Fig. 10)

Part No.	Product No.	Positions	1	25	50
679527	1-480271-0R	6 (2 x 3)	..... \$ .75	..... \$ .69	..... \$ .66
679535	1-480284-0R	8 (2 x 4)	..... 1.16	..... 1.10	..... 1.06
679543	1-480286-0R	10 (2 x 5)	..... 1.59	..... 1.49	..... 1.25
679551	1-480288-0R	12 (2 x 6)	..... 1.59	..... 1.46	..... 1.39
679560	1-480439-0R	16 (2 x 8)	..... 1.16	..... 1.10	..... 1.06

### Panel Mount Housing Plug w/ Positive Lock (Fig. 11)

Part No.	Product No.	Positions	1	25	50
679471	1-480304-0R	3 (1 x 3)	..... \$ .23	..... \$ .225	..... \$ .219
679480	1-480273-0R	6 (3 x 2)	..... .70	..... .67	..... .65
679498	1-480274-0R	9 (3 x 3)	..... .77	..... .73	..... .71
679501	1-480275-0R	12 (3 x 4)	..... .91	..... .88	..... .85
679519	1-480323-0R	15 (3 x 5)	..... 1.49	..... 1.41	..... 1.35

### Panel Mount Housing Cap w/ Positive Lock (Fig. 12)

Part No.	Product No.	Positions	1	25	50
679439	1-480276-0R	6 (3 x 2)	..... \$ .40	..... \$ .38	..... \$ .371
679447	1-480277-0R	9 (3 x 3)	..... .71	..... .68	..... .66
679455	1-480278-0R	12 (3 x 4)	..... .78	..... .77	..... .76
679463	1-480324-0R	15 (3 x 5)	..... 1.32	..... 1.25	..... 1.20

### Vertical In-Line IDC (Fig. 13)

Part No.	Product No.	Positions	1	25	50
679691	770156-4R	4 (20AWG)	..... \$ .55	..... \$ .53	..... \$ .51
679703	770156-3R	4 (18AWG)	..... .55	..... .53	..... .51

### IDC Dust Covers (Fig. 14)

Part No.	Product No.	Positions	1	25	50
679711	770232-1R	4 (Feed-to)	..... \$ .20	..... \$ .169	..... \$ .161
679720	770233-1R	4 (Feed-thru)	..... .20	..... .169	..... .160

### Crimp Terminals

- Material: A—brass pre-tin; B—brass, gold
- Prepackaged: please order in increments of 10

Part No.	Product No.	Type	AWG	Material	10	100
526150	60617-1R	Socket	24-18	A	..... \$ .093	..... \$ .084
679578	60618-5R	Pin	24-18	B	..... .83	..... .81
526168	60619-1R	Socket	20-14	A	..... .086	..... .076
526125	60620-1R	Pin	20-14	A	..... .091	..... .083

## AMP Extraction Tool

- Use with miniature rectangular connectors

Part No.	Product No.	1	10
526660	455822-2	..... \$18.99	..... \$17.07



### NOVO Receptacles

- 0.100" x 0.100" (2.54mm) grid center
- Preassembled housing with cover
- Accepts 28-26AWG solid or stranded cables
- Insulation displacement contacts for fast, economical mass terminations

### Contact Plating:

- A: 30μ" gold on localized gold plate area, 50μ" min. tin on termination end;
- B: 15μ" gold on localized gold plate area, 100μ"-200μ" tin on termination end;
- C: 15μ" gold on localized gold plate area, 100μ"-200μ" tin lead termination end, all over 50μ" min. nickel on entire area;
- D: 15μ" gold on localized gold plate area, 100μ"-200μ" bright tin lead on termination end, all over 50μ" nickel on entire contact area;
- E: 30μ" gold on localized gold plate area, 100μ"-200μ" bright tin lead on termination end, all over 50μ" nickel on entire contact area

## .100" AMPLATCH™ IDC Ribbon Connectors

- Contact current rating: 1A continuous
- Dielectric withstanding voltage: 1000V (receptacles); 500V (pin connectors)
- Housing, cover, & strain relief: 94V-0 rated thermoplastic, black • 0.100" grid pitch
- Contacts: phosphor bronze, duplex plating

### Center and Military Polarized

Part No.	Product No.	Pos.	Plating	1	10	100
901642	1658622-1R	10	A	..... \$1.45	..... \$ .93	..... \$ .82
525309	746285-1	10	C	..... 1.29	..... 1.19	..... 1.09
742215	1658621-1R	10	B	..... .99	..... .84	..... .76
901685	1658622-2R	14	A	..... 1.49	..... 1.38	..... 1.29
525317	746285-2	14	C	..... 1.69	..... 1.44	..... 1.28
901407	1658621-2R	14	B	..... 1.55	..... 1.15	..... 1.04
901722	1658621-3R	16	B	..... 1.99	..... 1.29	..... 1.13
525325	746285-3	16	C	..... 1.31	..... 1.25	..... 1.21
901440	1658621-3R	16	B	..... 2.79	..... 1.35	..... 1.18
901765	1658622-4R	20	A	..... 2.09	..... 1.35	..... 1.18
525333	746285-4	20	C	..... 1.20	..... 1.15	..... 1.11




### Center and Military Polarized (Continued)

Part No.	Product No.	Pos.	Plating	1	10	100
901482	1658621-4R	20	B	..... \$1.45	..... \$1.19	..... \$1.05
525413	746288-6	26	E	..... 1.39	..... 1.29	..... 1.09
901802	1658622-6R	26	A	..... 1.49	..... 1.24	..... 1.19
525341	746285-6	26	C	..... 1.48	..... 1.26	..... .95
901520	1658621-6R	26	B	..... 2.35	..... 1.49	..... 1.33
748801	1658622-8R	34	A	..... 3.99	..... 1.93	..... 1.68
525350	746285-8	34	C	..... 1.65	..... 1.49	..... 1.39
901562	1658621-8R	34	B	..... 1.99	..... 1.69	..... 1.45
525368	746285-9	40	C	..... 1.79	..... 1.75	..... 1.73
901600	1658621-9R	40	B	..... 3.89	..... 1.85	..... 1.59
525376	1-746288-0	50	E	..... \$2.85	..... 2.59	..... 2.18
888353	1-1658621-0R	50	B	..... 4.69	..... 2.29	..... 1.99

Continued on next page

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

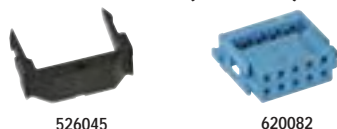
 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

For more AMPLATCH™ IDC Ribbon Connectors visit [www.Jameco.com](http://www.Jameco.com)

## AMP 100" AMPLATCH™ IDC Ribbon Connectors (Continued)



### Polarized

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Pos.	Plating	1	10	100
901845	1658623-1	10	A	\$1.09	\$0.76	\$0.75
524058	499997-2	14	D	.99	.89	.85
901301	1658620-2	14	B	★	Call	Call
901888	1658623-2	14	A	★	Call	Call
901925	1658623-3	16	A	★	Call	Call
524074	499997-4	20	D	1.09	1.05	.95
901343	1658620-4	20	B	1.99	.95	.84
901968	1658623-4	20	A	★	Call	Call

★ Please call or visit our website for minimum order quantity & pricing

### Strain Relief for NOVO Receptacles

- UL94V-0 rated thermoplastic
- Black

Part No.	Product No.	Pos.	1	10	100
526045	499252-5	10	\$0.20	\$0.175	\$0.131
526061	499252-8	16	.20	.18	.15
527697	499252-2	20	.20	.137	.103
527700	499252-3	26	.20	.149	.132
526070	499252-6	34	.21	.19	.16
526088	499252-4	50	.25	.19	.18

### Receptacles, Tulip Design, Center and Military Polarized w/ Strain Relief

- Housing and strain relief: 94V-0 rated glass reinforced thermoplastic, blue
- 0.100" (2.54mm) centers
- Contacts: beryllium copper, 30μ" gold over 50μ" nickel
- Tin/lead over nickel in termination area

Part No.	Product No.	Pos.	1	10	100
620082	609-1041	10	\$3.25	\$3.15	\$3.05
620146	609-2641	26	5.75	5.21	5.15

### JAMECO ValuePro D-Sub 9-Pin to 25-Pin Serial Adapters

- 10321: For PC/XT systems with DB25 serial ports.
- 139985: gold-plated contacts, extra long thumbscrews



Part No.	Description	1	10	100
10321	DB9 M to DB25 F	\$5.15	\$4.32	\$3.64
189632	DB9 M to DB25 M	3.49	3.15	2.85
139985	DB9 F to DB25 F	3.99	3.36	2.52

### Other Manufacturers — Great Deals

### D-Sub 9-Pin to 25-Pin Serial Adapters

- 10305: For use in AT or other computer systems that have 9-pin D-sub serial ports.
- 163740: For PC/XT systems with DB25 serial ports.

Part No.	Description	1	10	100
10305	DB9 F to DB25 M	\$3.15	\$2.69	\$1.99
163740	DB9 M to DB25 F, thumbscrews on DB9 side only	2.55	2.19	1.65
664296	DB9 M to DB25 M, thumbscrews on both sides	2.49	2.25	1.85

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Cinch

### Series 2400 Multiple-Density Solder-Eyelet Connectors

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Contact plating: cadmium
- Socket contacts have solder eyelets with 0.093" diameter
- Plug prongs are 0.250" wide and 0.55" thick
- For use in cable-to-cable and cable-to-panel applications
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact material: plug—brass; socket—phosphor bronze
- Hood material: formed metal with dielectric liner



### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded mono-block, black phenolic
- Current rating: 10 amps
- Contact material: plug—brass; socket—phosphor bronze
- Contact plating: cadmium
- Operating voltage: 250 VAC maximum
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic



### Plugs with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248760	P-302-CCT	2	\$2.29	\$2.02
248786	P-304-CCT	4	3.09	2.49
248794	P-306-CCT	6	2.89	2.62
445966	P-312-CCT	12	4.69	4.20
445982	P-315-CCT	15	7.25	6.57

## Jones Plugs and Sockets

### Plugs with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
428234	P-2406-CCT	6	\$7.89	\$7.22
428197	P-2408-CCT	8	10.39	9.48
427944	P-2412-CCT	12	10.50	9.76

### Sockets with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
444681	S-2406-CCT	6	\$8.49	\$6.50
444699	S-2408-CCT	8	7.39	7.05
444648	S-2410-CCT	10	9.09	8.24
444672	S-2412-CCT	12	11.45	10.41

### Socket with Angle Bracket

Part No.	Product No.	Contacts	1	25
444701	S-2408-AB	8	\$9.42	\$7.07

### Sockets with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248807	S-302-CCT	2	\$2.69	\$2.47
248823	S-304-CCT	4	2.99	2.76
248831	S-306-CCT	6	3.75	3.33
427952	S-315-CCT	15	9.95	9.10

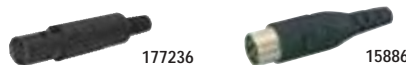
### Plugs with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
445771	P-302-AB	2	\$1.55	\$1.38
445860	P-304-AB	4	1.99	1.82
445907	P-306-AB	6	2.09	1.99

### Sockets with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
428023	S-302-AB	2	\$1.46	\$1.37
428120	S-304-AB	4	1.99	1.90
428171	S-306-AB	6	2.49	2.32

## JAMECO ValuePro DIN and Mini DIN Plugs & Receptacles



- Solder barrels w/ strain relief
- See pg 123 for cable

Part No.	Pins	Type	1	10	100
142279	4	Mini plug	\$0.79	\$0.68	\$0.53
142262	6	Mini plug	.89	.77	.59
177244	6	Mini receptacle	1.19	1.02	.83
111879	8	Mini plug	1.19	1.07	.89
177236	8	Mini receptacle	1.09	.93	.69
15879	5	DIN plug	.54	.49	.43
180873	5	DIN receptacle	.63	.54	.408
15886	6	DIN plug	.64	.54	.42
15894	8	DIN plug	.78	.68	.516

## JAMECO ValuePro DIN Female Sockets

- Metal body
- Panel mount with solder lugs



Part No.	Cross Ref.	# of pins	1	10	100	500
15844	DINJ5	5	\$1.39	\$1.25	\$1.14	\$0.86
15852	DINJ6	6	1.39	1.25	1.15	.99
15861	DINJ8	8	1.49	1.35	1.15	1.05

## JAMECO ValuePro Keyboard Adapters



### 159089/189771: AT keyboard adapter

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN

### 159097: PS/2 keyboard adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

### 316832: USB to PS/2 keyboard adapter

- USB-A female to PS/2 male

Quantity SAVE

Part No.	Length	Housing	1	10	100
159089	1.6"	Metal	\$3.09	\$2.65	\$1.99
159097	1.4"	Metal	3.49	2.99	2.24
189771	1.7"	Plastic	3.05	2.70	2.02
316832	2.0"	Plastic	1.79	1.59	1.39

### Other Manufacturers — Great Deals

### PS/2 Keyboard Adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)



Part No.	Length	Housing	1	10	100
157930	1.7"	Plastic/metal	\$2.65	\$2.25	\$1.69

## Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

Internal pin configuration:

17224: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20

26243: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

Part No.	Description	1	10	100
26243	DB25 M to DB25 F	\$4.35	\$3.98	\$3.80
17224	DB25 F to DB25 F	3.65	3.09	2.62

## Standard D-Sub Gender Changers



- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635	D-sub 9-pin male	\$2.34	\$2.10	\$1.79
16643	D-sub 9-pin female	1.95	1.75	1.49
22058	D-sub 25-pin male	2.05	1.58	1.11
22074	D-sub 25-pin female	2.25	2.01	1.85

## USB-A & B Connectors

1.0 and 2.0



174060: USB-A & B (2.0) Male Connector

- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724, see web) required per USB connector

161024/230958: USB-A & B (1.0 & 2.0) Female Connectors

- PC mount right angle with board locks

Part No.	Description	1	10	100	1000
161024	USB-A 1.0 conn. (F)	\$ .86	\$ .75	\$ .68	\$ .61
174060	USB-B 2.0 conn. (M)	.69	.64	.60	.45
230958	USB-B 2.0 conn. (F)	.99	.85	.55	.42

## PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.

- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

Part No.	Length	Housing	1	10	25
645351	13"	USB adapter ...	\$12.35	\$11.75	\$11.15

[www.Jameco.com](http://www.Jameco.com)

For additional Keystone hardware products visit our website today.

## Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts

119474: Plastic/metal body

29400: Plastic body

Part No.	Cross Ref. No.	# of pins	1	10	100	500
119474	MDR6S	6 (mini)	\$1.04	\$ .91	\$ .70	\$ .53
29400	RD5	5	.71	.64	.48	.432

## Slim-Line D-Sub Gender Changers



### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
- Tin plated shells

Part No.	Description	1	10	100
18497	9-pin male to male	\$5.19	\$4.72	\$4.19
18489	9-pin female to female	5.85	5.29	4.70
56071	15-pin male to male	3.95	3.49	2.95
56063	15-pin female to female	4.15	3.74	3.35
119320	15-pin female to female HD	4.75	4.28	3.84
119301	15-pin male to male HD	5.25	4.76	4.19
326537	15-pin M-F (pass through)	2.25	1.91	1.43
18447	25-pin male to male	4.95	4.49	3.99
18420	25-pin female to female	5.95	5.48	4.86
170085	25-pin M-F (pass through)	3.54	3.18	2.82

## .100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Prod. No.	Width	Pins	1	10	100
104337	8HP	0.3"	8	\$1.31	\$1.24	\$1.14
37130	14HP	0.3"	14	1.35	1.11	.99
37331	16HP	0.3"	16	1.49	1.38	1.20
38579	20HP	0.3"	20	3.29	2.99	2.65

## .100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 124
- Plastic with gold-plated contacts • Current rating: 1 A

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Width	Contacts	1	10	100	500
42657	609-14	0.3"	14	\$ .55	\$ .452	\$ .396	\$ .328
42673	609-16	0.3"	16	.55	.45	.35	.30
104097	609-20	0.3"	20	.83	.75	.66	.59
42691	609-24	0.6"	24	.95	.82	.74	.68
99670	609-28	0.6"	28	.89	.80	.72	.59
42712	609-40	0.6"	40	1.29	1.17	1.05	.94

## AMP DIP Sockets

### Dual Leaf Straight Solder Tail

- Accepts .008" to .014" thick IC leads
- Contact: phosphor bronze w/ 15µ" gold plate
- Housing: glass filled thermoplastic, 4V-0 rated, black

Part No.	Product No.	Pos.	Width	1	10	100
524576	2-640357-4	14	0.3	\$ .54	\$ .51	\$ .49
524584	2-640358-4	16	0.3	.59	.534	.512

### Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating
- Prepackaged: please order in increments of 10

Part No.	Product No.	Pos.	Width	1	10	100
526281	390261-1	6	0.3	\$ .067	\$ .062	
683091	1-390261-1	6	0.3	.08	.076	
526299	390261-2	8	0.3	.071	.065	
683104	1-390261-2	8	0.3	.071	.066	
526192	390261-3	14	0.3	.089	.084	
683112	1-390261-3	14	0.3	.105	.099	
526205	390261-4	16	0.3	.093	.086	
683121	1-390261-4	16	0.3	.106	.098	
526213	390261-5	18	0.3	.136	.098	
683139	1-390261-5	18	0.3	.146	.135	
526221	390261-6	20	0.3	.117	.112	
683147	1-390261-6	20	0.3	★	Call	
683163	1-390261-8	24	0.3	.177	.175	
526230	390262-1	24	0.6	.185	.176	
683198	1-390262-1	24	0.6	.184	.18	
683201	1-390262-2	28	0.6	.175	.172	
526248	390261-9	28	0.3	.243	.235	
683171	1-390261-9	28	0.3	.187	.185	
526256	390262-2	28	0.6	.176	.168	
526272	390262-5	40	0.6	.26	.255	
683227	1-390262-5	40	0.6	★	Call	

★ Please call or visit our website for minimum order quantity and pricing

### Economy Over-the-Component Style

Part No.	Product No.	Pos.	Width	1	10	100
526264	390263-2	32	0.6	\$ .26	\$ .241	\$ .229
683286	1-390263-2	32	0.6	.20	.189	.188

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

355688: 1 serial port 149622: 1 parallel port

Part No.	Description	1	10	25
355688	DB9 to 10-pin header	\$2.25	\$1.91	\$1.43
149622	DB25 to 26-pin header	2.99	2.75	2.49

## Computer Card Bracket

- 4-40 threaded tabs
- Material: steel, nickel plated
- Length: 4.725" • PCI format

Part No.	Product No.	Description	1	10	100
1582356	9203	Blank panel	\$2.74	\$2.55	\$2.39

## Computer Card Brackets

- For securing cards into bus slots
- Length: 4.75"
- Fits PC/XT/AT cases
- See pg 138 for DB connectors

Part No.	Description	Fig.	1	10	100
11754	Blank back panel	1	\$1.79	\$1.59	\$1.45
101718	For DB9 connector	2	1.79	1.59	1.45
101733	For DB25 connector	3	1.79	1.52	1.14
101741	For DC37 connector	4	1.79	1.52	1.14
101831	For DB9/DB25 conn.	5	1.79	1.59	1.45



## .050" (1.27mm) 184-Position DDR DIMM Sockets

- Current (max.): 1.0A
- Withstanding voltage: 500VAC
- Contact: copper alloy; except for 668502: phosphor bronze
- Plating tail: tin, lead free
- Under plating: nickel
- Voltage key: 2.5V, left
- Insulation resistance: 1000MΩ min.
- UL94V-0
- Durability: 25 cycles min.

Part No.	Prod. No.	Description	Voltage (max.)	Contact Res. max.	1	10	25	50
668511	87623-2001	25° LP	50V	40mΩ	\$7.69	\$7.39	\$7.10	\$6.45
668502	87636-2002	Vertical	50V	30mΩ	1.85	1.76	1.67	1.52
668490	87655-0004	Rt. angle	125V	30mΩ	12.75	12.19	11.63	10.57

668502

- Housing: high temp. thermoplastic
- Contact plating: .38μm (15μ") gold
- Temperature range: -10°C to +85°C



## .050" (1.27mm) 168-Position DIMM Sockets

- Accepts JEDEC MO-161 modules
- Contact: phosphor bronze
- Insulation res.: 1000MΩ min
- Withstanding volt.: 500VAC
- Current (max.): 1.0A
- Plating tail: tin/lead
- UL94V-0
- Contact resistance: 30mΩ max.
- Temperature range: -40°C to +85°C
- Contact plating: gold over palladium nickel
- Voltage (max.): 100V
- Under plating: nickel
- Housing: liquid crystal polymer
- Durability: 25 cycles (min.)

- 662813/662821/662830/662848: beveled metal pin, forklock PCB retention
- 668529/668545/668537: press-fit plastic peg PCB retention

Part No.	Prod. No.	Description	Function Key	Voltage Key	1	10	25	50
662813	71736-0001	DRAM, 3.3V	Detail Y	Detail Y	\$3.69	\$3.43	\$3.10	\$2.79
662821	71736-0002	DRAM, 5.0V	Detail Y	Detail Z	3.89	3.60	3.24	2.93
662830	71736-0005	Unbuff., 5.0V	Detail X	Detail Z	3.35	3.09	2.78	2.72
662848	71736-0006	SDRAM, 3.3V	Detail Z	Detail Y	3.69	3.43	3.10	2.79
668529	71251-0001	DRAM, 3.3V	Detail Y	Detail Y	3.75	3.56	3.32	3.13
668545	71251-0002	Unbuff., 3.3V	Detail X	Detail Y	4.45	4.27	4.08	3.71
668537	71251-0016	SDRAM, 3.3V	Detail Z	Detail Y	4.45	4.27	4.08	3.71

668529



## .050" (1.27mm) Pitch 72-Position SIMM Sockets

- Accepts JEDEC MO-116 modules
- Contact: phosphor bronze
- Insulation res.: 5000MΩ min.
- Withstanding voltage: 1000VAC
- Voltage (max.): 250V
- Contact plating (plating thickness): gold (0.76μm; 30μ"); tin/lead (5μm; 200μ")
- PCB retention: press-fit plastic peg
- Housing: liquid crystal polymer
- Left polarization
- Contact resistance: 30mΩ max.
- Temp. range: -40°C to +85°C
- Current (max.): 1.0A
- Durability: 25 cycles min.
- Tin contact plating
- UL94V-0

Part No.	Prod. No.	Description	1	10	25
669791	15-82-0778	Vert.	\$4.09	\$3.76	\$3.42
669804	15-82-0678	22.5° low prof.	4.05	3.77	3.36
670750	15-82-0649	40° low prof.	4.29	3.71	3.37
670784	15-82-1538	Rt. angle	7.25	6.69	6.07

669791: right polarization; gold contact plating



## SIMM Socket

- Locking tabs
- Tinned contacts
- Keyed mounting posts
- Memory module sockets



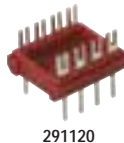
Part No.	Description	1	10	100	500
100302	Single x 30-pin, vert.	\$ .79	\$ .76	\$ .74	\$ .70



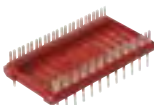
## DIP Headers

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100μ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads



291120



291996

Part No.	Product No.	Pos.	W (in.)*	1	10	100
291120	08-600-10	8	0.300	\$1.09	\$ .96	\$ .79
291312	14-600-10	14	0.300	1.55	1.37	1.11
291574	16-600-10	16	0.300	1.69	1.49	1.22
291945	20-600-10	20	0.300	2.09	1.81	1.46
291996	24-600-10	24	0.600	2.55	2.22	1.82

\* Center to center pin width



## PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"

Part No.	Cross Ref. No.	Pins	1	10	50	100
71618	G1P444	44	\$1.15	\$ .99	\$ .81	\$ .69
72442	G1P452	52	1.05	.83	.68	.58
71969	G1P468	68	1.39	1.18	1.06	.94
71977	G1P484	84	1.35	1.24	.97	.73

### Other Manufacturers — Great Deals

687703	821574-1	68	\$1.03	\$ .93	\$ .84	\$ .75
687691	821573-1	84	1.40	1.31	1.18	.99

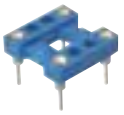
[www.Jameco.com](http://www.Jameco.com)

For sockets from Augat/Tyco visit our website today.



## Oscillator Socket

- Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard with 200μ" (5.08μm) 93/7 tin/lead plating
- Operating temp.: 221°F (105°C)
- Contact current: 3A
- Center pin spacing: .300" (7.62mm)
- Suggested PCB hole size: .030" (.76mm)



Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291283	1108800	8	.40 x .40	\$.56	\$.47	\$.38



## Universal SOIC to .600" DIP Adapter

### Series 647

- 44-pin adapter for mounting Aries Series 547 Universal SOIC ZIF test socket to 0.600" DIP PCB layout
- Black FR-4 body material, 0.094" thick w/ copper traces
- Brass alloy female pin body with 200μ" (5.08μm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10μ" (0.25μm) gold over nickel plating
- Phosphor bronze alloy male pin with 200μ" (5.08μm) tin/lead plating
- Suggested PCB hole size: 0.028" diameter



Part No.	Product No.	Price
295283	44-647-10	\$70.75



## PLCC-to-DIP Adapter with Socket

### Series 653000

- Converts PLCC packaged ICs to DIP footprints
- Adapter body: FR-4; .062" (1.58mm) thick with 1 oz. minimum copper traces
- Brass alloy solder tail pins w/ 200μ" (5.08μm) 93/7 tin/lead
- Current rating: 1A
- Center pins: .600" (15.24mm)
- Width: .705"
- Suggested PCB hole size: .028" (.71mm) Dia.



Part No.	Product No.	Pos.	Length	1	10	100
295196	32-653000-10	32	1.6"	\$35.65	\$32.65	\$27.05

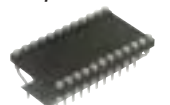


## Row-to-Row DIP Adapter Socket

### Series 1107254 - .600" to .300" adapter

This socket allows the use of .300" (7.62mm) center devices when the PCB is drilled on .600" (15.24mm) centers and vice versa.

- Brass alloy pin body w/ 200μ" (1.27μm) 93/7 tin/lead plating
- Socket body: UL 94-HB glass-filled nylon
- Beryllium copper alloy 4-fingered collet contact w/ 30μ" (0.76μm) gold plating
- Contact current: 3A
- Suggested PCB hole size: .035" (.89mm) dia.



Part No.	Product No.	Pins	1	10	100
296762	1107254-28	28	\$10.89	\$8.29	\$7.55

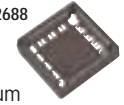


## PLCC Surface Mount Socket

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55°C/+170°C

**Quantity SAVE**

152688



Part No.	Cross Ref. No.	Pins	1	10	50	100
152688	PLCC44D	44	\$.75	\$ .60	\$ .48	\$ .36

## ARIES DIP/SOIC to TO Adapters

8-pin DIP socket or 8-pin SOIC foot-print on top and a circular 8-pin TO can male footprint at the bottom. ICs now available only in 8-pin DIP or SOIC can be readily mounted on boards having TO thru-hole footprints without having to redesign the board.

- Board thickness: .062"
- Male pin: brass alloy with 200µ" tin plating
- Suggested PCB hole size: .028" Dia.

**323272: DIP to TO adapter**

- Socket body: black UL 94V-0
- Female pin: brass alloy with 10µ" gold plating
- Female pin contact: beryllium copper with 10µ" gold plating • Contact current: 3A
- Accepts leads: .015" to .025" Dia.; .100" to .125" long
- Dimensions: 0.4" L x 0.4" W x 0.23" H

**323264: SOIC to TO adapter**

- 1 oz. copper traces on both sides • Size: 0.375" Dia.

Part No.	Product No.	1	10	100
323272	1109522	\$8.35	\$7.89	\$7.49
323264	1109814	11.99	10.14	9.13



## ARIES SOIC/SOJ to DIP Adapters

- Board material: 0.062" thick FR-4 with 1 oz. copper traces on both sides
- Brass alloy pins w/ 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" (0.71mm) Dia.

**Series 35000X**

- Center pins: 0.300" (7.62mm) • SOIC package

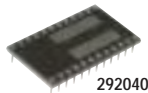
Part No.	Product No.	Pins	L"xW"	1	10	100
291208	08-350000-10	8	.400 x .46	\$6.59	\$5.59	\$4.50
291291	14-350000-10	14	.700 x .45	5.79	4.91	4.63
291515	16-350000-10	16	.800 x .45	6.55	5.59	4.65
291911	20-350000-10	20	1.0 x .45	6.55	5.56	4.60
291980	24-350000-10	24	1.2 x .45	5.09	4.96	4.85
292075	28-350000-10	28	1.4 x .40	7.26	6.28	6.00

**Series 65000X**

- Center pins: 0.600" (15.24mm)
- SOIC package

Ⓢ Blue Part No. = Limited Quantity Available

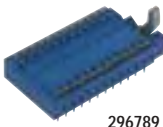
Part No.	Product No.	Pins	L"xW"	1	10	100
292040	24-650000-10	24	1.2 x .70	\$9.65	\$8.16	\$7.09
295145	28-650000-10	28	1.4 x .70	10.35	10.25	10.15



## ARIES Series 526 Low Profile ZIF Sockets

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact current: 2A
- Contact resistance: 10mΩ max.
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" (0.89mm) Dia.

Part No.	Product No.	Pins	L" x W"	1	10	100
296789	24-526-10	24	1.45 x .75	\$5.65	\$4.80	\$3.65
102745	28-526-10	28	1.64 x .75	5.75	5.24	4.71
102753	40-526-10	40	2.24 x .75	7.35	6.25	4.69



## ARIES High Temp. Universal ZIF Test Sockets

**Series X55X**

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel;
- -11: 10µ" gold over 50µ" nickel
- Operating temperature:
  - 10: 221°F (105°C) – tin plating
  - 11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Contact current: 1A
- Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 1000VAC
- Center pins: 0.600" (15.24mm)

Part No.	Product No.	Pins	L" x W"	1	10	100
292059	26-6554-11	26	1.3 x 0.9	\$10.95	\$9.59	\$9.55
295162	28-6554-11	28	1.4 x 0.9	11.85	10.39	10.25
295209	32-6554-11	32	1.6 x 0.9	13.15	11.49	11.39
295233	40-6554-11	40	2.0 x 0.9	15.69	13.79	13.69
103992	24-6554-10	24	1.8 x 0.9	7.89	7.13	6.29
104003	28-6554-10	28	2.0 x 0.9	8.89	7.76	7.51
104012	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104030	40-6554-10	40	2.5 x 0.9	11.85	10.29	9.92



## Jameco ValuePro Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact resistance: <5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100	500
94474	8MSWW3	8	0.3	\$ .64	\$ .55	\$ .456	\$ .408
62051	14MSWW3	14	0.3	1.05	.88	.74	.66
37411	16MSWW3	16	0.3	1.19	1.01	.85	.76
94482	18MSWW3	18	0.3	1.15	.98	.82	.78
38632	20MSWW3	20	0.3	1.39	1.20	1.00	.90
185324	22MSWW3	22	0.3	1.45	1.29	1.09	1.00
105372	24MSWW3	24	0.3	1.59	1.36	1.14	1.02
94491	24MSWW3	24	0.6	1.86	1.58	1.34	1.24
200716	28MSWW3	28	0.3	1.85	1.54	1.29	1.16
40336	28MSWW3	28	0.6	1.89	1.60	1.52	1.38
117057	32MSWW3	32	0.6	2.19	1.97	1.58	1.28
94503	40MSWW3	40	0.6	2.75	2.35	1.96	1.76
200723	48MSWW3	48	0.6	2.65	2.38	2.14	1.93

**Other Manufacturers — Great Deals**

313656	24MSWW3	24	0.6	\$1.43	\$1.26	\$1.06	\$ .95
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## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com)

## Jameco ValuePro Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100	1000
167003	6MLPT	6	0.3	\$.29	\$.26	\$.18	\$.16
51626	8MLP	8	0.3	.28	.25	.21	.19
37197	14MLP	14	0.3	.44	.40	.34	.31
37402	16MLP	16	0.3	.47	.43	.37	.34
65585	18MLP	18	0.3	.65	.57	.492	.447
38623	20MLP	20	0.3	.59	.55	.45	.39
39387	24SMLP	24	0.3	.79	.70	.56	.414
39351	24MLP	24	0.6	.78	.71	.64	.528
114412	28SMLP	28	0.3	.85	.75	.65	.55
40329	28MLP	28	0.6	1.95	1.77	1.53	1.39
105381	32MLP	32	0.6	.95	.85	.75	.65
41136	40MLP	40	0.6	1.59	1.42	1.07	.93
42060	48MLP	48	0.6	1.55	1.40	1.25	1.07

**Other Manufacturers — Great Deals**

662565	6MLP	6	0.3	\$.25	\$.22	\$.16	\$.14
662573	8MLP	8	0.3	.22	.20	.17	.15
662611	16MLP	16	0.3	.42	.38	.33	.30
192209	22SMLP	22	0.4	.53	.477	.382	.287
652359	24MLP-GLD	24	0.6	.59	.49	.39	.25
184680	28SMLP	28	0.4	.80	.72	.58	.43
662629	40MLP	40	0.6	1.09	.95	.69	.62

## Jameco ValuePro Machine Contact Single-In-Line Female Sockets

- Machine tooled • Single row
- Solder tail and wire wrap

Part No.	Description	1	10	100	500
102201	10-pin	\$.27	\$.24	\$.21	\$.19
78642	30-pin	.99	.88	.76	.68
175920	36-pin	1.35	1.20	1.07	.96
101283	20-pin WW2	1.65	1.50	1.21	.89
104054	30-pin WW3	2.25	2.01	1.71	1.55

† Lead length: .435" (2) \* Lead length: .575" (3)

## Jameco ValuePro Machine Contact Dual-In-Line Female Sockets

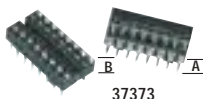
- 0.100" centers
- Solder tail contact: .114" L
- Contact clip: gold • Pin sleeve: tin

Ⓢ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Pins	1	10	100
212856	SA101000	10	\$.29	\$.23	\$.173
212871	SA141000	14	.39	.38	.35
212880	SA161000	16	.40	.37	.34
184612	SA201000	20	.50	.46	.42
212927	SA321000	32	.80	.74	.55
212936	SA481000	48	1.20	1.11	1.01

## Dual Wipe Solder Tail Low-Profile Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)
- Prepackaged: please order in increments of 10



37373

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
112193	6LPD	6	0.3 ...	.072	.06	.062
112206	8LPD	8	0.3 ...	.096	.084	.199
112214	14LPD	14	0.3 ...	.09	.06	.102
112222	16LPD	16	0.3 ...	.138	.114	.235
112231	18LPD	18	0.3 ...	.168	.144	.212
112281	24SLPD	24	0.3 ...	.134	.10	.15
112266	24LPD	24	0.6 ...	.164	.147	.257
112299	28SLPD	28	0.3 ...	.21	.19	.17
112301	32LPD	32	0.6 ...	.26	.23	.173
112311	40LPD	40	0.6 ...	.472	.417	.345

### Other Manufacturers — Great Deals

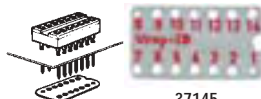
#### Single & Dual Wipe Low-Profile Sockets

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
51571	8LP	8	0.3 ...	.065	.054	.15
689928	ED08DT	8†	0.3 ...	.075	.065	.055
37162	14LP	14	0.3 ...	.076	.065	.122
689936	ED14DT	14†	0.3 ...	.08	.065	.04
37373	16LP	16	0.3 ...	.213	.191	.128
689944	ED16DT	16†	0.3 ...	.11	.09	.07
38113	18LP	18	0.3 ...	.099	.084	.063
689952	ED18DT	18†	0.3 ...	.14	.12	.10
38608	20LP	20	0.3 ...	.222	.185	.13
112248	20LPD	20†	0.3 ...	.153	.13	.098
39132	22LP	22	0.4 ...	.113	.105	.10
39378	24SLP	24	0.3 ...	.165	.124	.158
39335	24LP	24	0.6 ...	.128	.081	.061
112266	24LPD	24†	0.6 ...	.164	.147	.257
40301	28LP	28	0.6 ...	.171	.117	.081
112272	28LPD	28†	0.6 ...	.19	.16	.14
689961	ED28DT	28†	0.3 ...	.18	.15	.11
689979	ED32DT	32†	0.6 ...	.18	.15	.11
41111	40LP	40	0.6 ...	.25	.23	.16
689987	ED40DT	40†	0.6 ...	.22	.19	.13

† Dual Wipe

## Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- Can easily write location, part number or function



37145

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561	8ID	8	0.3 ...	.44	.35	.30	.28
37145	14ID	14	0.3 ...	.35	.31	.28	.24
37356	16ID	16	0.3 ...	.29	.26	.25	.23
38105	18ID	18	0.3 ...	.50	.45	.36	.27
38586	20ID	20	0.3 ...	.47	.452	.429	.408
39327	24ID	24	0.6 ...	.44	.408	.384	.372
40299	28ID	28	0.6 ...	.78	.71	.57	.425
41101	40ID	40	0.6 ...	.94	.92	.91	.89

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

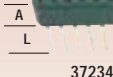
♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: <5mΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3)
- Sleeve material: brass • Body height: .300" (A)

CA



37234

### Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37234	14WW2	14	0.3	\$1.79	\$1.62	\$1.43	\$1.31
37480	16WW2	16	0.3	3.55	3.21	2.89	2.61
38675	20WW2	20	0.3	2.45	2.19	2.00	1.82
40353	28WW2	28	0.6	5.75	5.15	4.75	4.15

### Tin (TWW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37218	14TWW2	14	0.3	\$1.38	\$1.24	\$1.12	\$1.01
37437	16TWW2	16	0.3	1.19	1.07	.96	.90
87637	18TWW2	18	0.3	1.43	1.36	1.29	1.19
75380	20TWW2	20	0.3	3.45	3.10	2.75	2.51
75417	24TWW2	24	0.6	1.79	1.62	1.31	.95
41180	40TWW2	40	0.6	2.99	2.58	2.15	1.95

### Other Manufacturers — Great Deals

196841	14TWW3	14	0.3	\$ .82	\$ .74	\$ .59	\$ .44
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## N-Type Crimp Plug

- Attachment (outer/inner): crimp/crimp
- Silver-plated
- 697012: RG8/9/87A/213/214/225
- 697021: RG55/142/223/400
- 188445: RG58/141



188445

Part No.	Product No.	1	10	25
697012	82-4425	\$14.15	\$13.71	\$13.09
697021	82-5370	10.35	10.05	9.61
188445	82-5375-RFX	4.19	3.40	3.37

## Amphenol® BNC Connectors and Adapters

- Frequency range: 0-4GHz
- Contact plating: silver/gold
- Cable type: 696141: RG108A  
696159: RG174/188A/316/Belden 7805A  
188349: RG174/188/316  
188306: RG58/184  
696757: RG174/188A/316/Belden 7805A

- Working voltage: 500V
- Body plating: nickel/tin-lead



Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
696132	31-10	—	—	50Ω receptacle, straight/bulkhead, solder cup	\$5.19	\$5.09	\$5.05
188429	31-208-RFX	1	—	50Ω Jack-plug-jack	4.19	3.39	2.65
188411	31-219-RFX	2	—	50Ω Straight jack-to-jack	3.15	2.74	2.06
188402	31-220G-RFX	3	—	50Ω Gasketed jack-to-jack	3.89	3.03	2.50
223554	31-3220	4	UG-492D/U	50Ω bulkhead adapter, straight, jack-jack	11.25	9.88	8.90
223511	31-221	5	UG-1094/U	50Ω bulkhead receptacle, straight, solder cup	2.49	2.15	1.83
223538	31-2221	6	UG-1094A/U	50Ω bulkhead receptacle, straight, solder cup	2.55	2.29	2.04
696141	31-2226	7	—	50Ω plug, twin BNC, straight, clamp/solder	18.49	17.96	16.58
696159	31-315	8	—	50Ω plug crimp, 3-piece	6.25	6.05	5.39
188349	31-315-RFX	9	—	50Ω plug crimp, 3-piece	2.15	1.46	1.25
188306	31-320-RFX	8	—	50Ω plug crimp, 3-piece	1.75	1.30	1.06
696757	69475	7	—	50Ω plug, straight, clamp/solder	10.19	9.17	8.25

## N-Type Adapter

- In-series
- Socket/socket
- Body style: bulkhead
- Brass, nickel plated
- Contact: beryllium copper, silver plated



Part No.	Product No.	1	10	25
697039	82-66	\$24.99	\$24.26	\$22.36

## Amphenol® SMA Crimp Plug

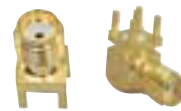
- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug
- Material: brass
- For RG174/U, RG188/U, and RG316/U cables



Part No.	Product No.	1	10	25
188488	901-9877-RFX	\$2.45	\$1.96	\$1.71

## Amphenol® SMA PCB Jacks

- Applications: cellular phone, data communication, instrumentation and video
- 50Ω impedance
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C



188509

188525

Part No.	Product No.	1	10	25
188509	901-144-8-RFX	\$3.19	\$2.56	\$2.53
188525	901-143-6-RFX	5.35	4.27	4.19

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time.














































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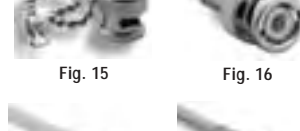
For more Amphenol Connectors visit [www.Jameco.com](http://www.Jameco.com)

**Amphenol Connex**

## BNC Connectors and Adapters 50Ω/75Ω

\* Crimp tools for these connectors are on page 165

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
295953	112116		1	A 50Ω straight crimp plug, captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	\$1.55	\$1.37	\$1.25
295970	112119		1	A 75Ω straight crimp plug, captive contact	RG-59/62/140/210	1.59	1.52	1.46
296008	112132		1	B 50Ω straight crimp plug, captive contact	RG-174/188A/316/B7805A	1.99	1.74	1.59
296016	112133		1	B 75Ω straight crimp plug, captive contact	RG-179/187/B9221	1.40	1.34	1.28
296032	112144		2	A 50Ω straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	1.89	1.81	1.72
296041	112160		2	B 50Ω straight crimp jack	RG-174/188A/316/B7805A	1.95	1.84	1.75
296631	112161		2	B 75Ω straight crimp jack	RG-179/187/B9221	<del>2.09</del> 1.85	1.76	1.68
296420	112162		3	A 50Ω right angle crimp/solder plug	RG-58/58A/58C/141/303/LMR195/B7806A	3.45	3.30	3.16
296614	112178		3	B 50Ω right angle crimp/solder plug	RG-174/188A/316/B7805A	4.19	4.12	3.57
658371	112202		4	A 50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	3.39	3.20	3.05
658398	112234		4	B 50Ω bulkhead crimp jack	RG-174/188A/316/B7805A	3.35	2.98	2.93
658401	112235		4	B 75Ω bulkhead crimp jack	RG-179/187/B9221	3.15	3.06	2.91
658435	112290		5	— 50Ω panel receptacle jack	All 50Ω coax cables	<del>3.85</del> 3.25	3.10	2.96
658478	112349		6	— 50Ω jack-to-jack bulkhead adapter, isolated	—	4.19	3.99	3.85
296059	112404		7	— 50Ω straight PCB mount jack	All 50Ω coax cables	1.65	1.55	1.48
658427	112424		8	— 50Ω receptacle jack, solder terminal	All 50Ω coax cables	1.59	1.51	1.43
296067	112431		9	— 50Ω bulkhead rec. jack, isolated, solder term.	All 50Ω coax cables	2.99	2.89	2.72
658451	112437		10	— 50Ω jack-to-jack bulkhead adapter	All 50Ω coax cables	2.99	2.86	2.74
658460	112438		10	— 75Ω jack-to-jack adapter	All 75Ω coax cables	2.99	2.86	2.73
296075	112440		10	— 75Ω bulkhead jack-to-jack adapter, isolated	All 75Ω coax cables	4.09	3.69	3.29
658486	112443		11	— 50Ω jack-to-jack bulkhead adapter, isolated	All 50Ω coax cables	3.19	3.03	2.87
658494	112444		11	— 75Ω jack-to-jack bulkhead adapter, isolated	All 75Ω coax cables	3.29	3.15	3.02
658507	112445		12	— 50Ω jack-to-jack adapter	All 50Ω coax cables	2.15	2.04	1.93
296083	112446		12	— 75Ω jack-to-jack adapter	All 75Ω coax cables	2.15	2.04	1.95
658515	112461		13	— 50Ω T-adapter, jack-plug-jack	All 50Ω coax cables	1.85	1.76	1.66
658380	112505		4	A 50Ω bulkhead crimp jack	RG-55/142/223/400	2.75	2.64	2.53
296091	112507		1	A 50Ω straight crimp plug	RG-59U 20AWG/B-91-B/1515/B9104	1.49	1.47	1.33
296198	112508		1	E 75Ω straight crimp plug, captive contact	RG-6/143/212/B3092/B3093	1.69	1.59	1.49
295996	112512		1	B 50Ω straight crimp plug, captive contact	316/U double braided	2.05	2.01	1.47
296622	112513		2	A 50Ω straight crimp jack	RG-55/142/223/400	1.89	1.80	1.70
296104	112514		1	A 50Ω straight crimp plug, captive contact	RG-55/142/223/400	1.49	1.45	1.39
296024	112516		1	B 50Ω straight crimp plug, captive contact	RG-178/196	2.09	1.93	1.76
296497	112526		3	A 50Ω BNC right angle crimp/solder plug	RG-55/142/223/400	4.35	4.19	3.94
296139	112533		1	A 50Ω straight crimp plug, captive contact	RG-8X/LMR240/B7808A	1.59	1.53	1.46
658443	112538		14	— 50Ω straight jack PCB mount	All 50Ω coax cables	1.75	1.66	1.58
296243	112551		1	— 50Ω straight solder plug, 0.141 semi-rigid	RG-402/U	2.09	1.92	1.76
296112	112562		1	D 50Ω straight crimp plug, captive contact	RG-8/8A/213/393	4.69	4.27	3.82
296147	112563		1	L 50Ω straight crimp plug, captive contact	B9913/LMR400/B7810A/B8214	4.55	4.31	4.12
296121	112565		1	E 75Ω BNC straight crimp plug, captive contact	RG- B1694A/B889248	1.55	1.48	1.40
658419	112581		4	— 50Ω bulkhead crimp jack, 0.141 semi-rigid	RG-402/U	2.99	2.71	2.44
295988	112597		10	— 50Ω BNC straight crimp plug, captive contact	RG- LMR200/B7807A	1.85	1.78	1.71
658540	202100		15	— Male cap with chain	All BNC female connectors	1.89	1.80	1.78
658523	202103		16	— 50Ω terminator plug	All 50Ω coax cables	1.79	1.71	1.62
658531	202105		16	— 75Ω terminator plug	All 75Ω coax cables	2.15	2.06	1.97
658558	202114		15	— Male shorting cap w/o chain	All BNC female connectors	2.55	2.45	2.35













Interconnects

**Amphenol Connex**

## MCX/MMCX Connectors 50Ω






\* Crimp tools for these connectors are on page 165


Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296649	252102		17	B MCX right angle crimp plug	RG-174/188A/316/B7805A	\$4.69	\$4.43	\$4.26
662506	252103		18	B MCX straight crimp plug	RG-174/188A/316/B7805A	3.99	3.79	3.59
296657	252105		19	— MCX straight jack, PCB	All 50Ω coax cables	4.07	3.89	3.71
662522	252107		18	— MCX straight solder plug, 0.085 semi-rigid	RG-405/U	3.45	3.30	3.15
296665	252109		17	— MCX rt angle solder plug, 0.085 semi-rigid	RG-405/U	4.39	4.17	3.97
662531	252115		17	A MCX right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	5.75	5.47	5.19
662514	252127		18	B MCX straight crimp plug	RG-178/196	5.99	5.39	4.99
662549	252153		20	— MCX straight plug, PCB	—	4.79	4.50	4.32
296673	262102		21	B MMCX right angle cable plug	RG-178/196	3.35	3.28	3.16
296681	262103		21	B MMCX right angle cable plug	RG-174/188A/316/B7805A	3.29	3.24	3.12

**Amphenol Connex**

## Type N Connectors 50Ω

\* Crimp tools for these connectors are on page 165

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296454	172100		22	J Straight crimp plug captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	<del>5.09</del> \$3.99	\$3.63	\$3.43
296462	172102		22	D Straight crimp plug captive contact	RG-8/8A/213/393	4.15	3.99	3.79
296471	172102H243		22	L Straight crimp plug captive contact	RG-B9913/LMR400/B7810A/B8214	4.45	4.19	3.97
296489	172103		23	J Straight crimp jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	4.09	3.49	3.19
659198	172106		24	J Bulkhead crimp jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	6.35	5.94	5.68

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

Color Code Legend  
 New Sale Lower\$ QtySave

## Amphenol Connex

## Type N Connectors 50Ω (Continued)

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
659251	172117	R 4	—	Panel receptacle jack	—	\$4.25	\$4.00	\$3.75
659260	172118	R 5	—	Panel receptacle jack, solder terminal	—	6.09	5.88	5.27
659278	172119	R 6	—	Panel receptacle jack, solder terminal	All 50Ω coax cables	4.65	4.40	3.93
659286	172122	R 7	—	Plug-to-plug adapter	All 50Ω coax cables	6.75	6.15	5.61
659294	172123	R 8	—	Jack-to-jack adapter	All 50Ω coax cables	4.45	4.10	3.90
659307	172124	R 9	—	Bulkhead jack-to-jack adapter	—	6.05	5.80	5.54
659315	172126	R 10	—	Angled plug-to-jack adapter	—	7.69	7.45	7.26
296500	172128	R 1	B/J	Straight crimp plug captive contact	RG-174/188A/316/B7805A	4.99	4.29	4.15
296518	172129	R 3	B	Bulkhead crimp jack captive contact	RG-174/188A/316/B7805A	6.29	5.39	4.93
296526	172132	R 3	J	Bulkhead crimp jack captive contact	RG-55/142/223/400	4.35	4.14	3.95
296534	172133	R 11	—	Straight solder plug, 0.141 semi-rigid	RG-402/U	4.85	4.15	3.81
296542	172135	R 1	J	Straight crimp plug captive contact	RG-8X/LMR240/B7808A	4.15	3.71	3.39
296551	172137	R 3	—	Bulkhead solder jack, 0.141 semi-rigid	RG-402/U	6.85	5.93	4.55
296569	172138	R 3	—	Bulkhead solder jack, 0.085 semi-rigid	RG-405/U	5.29	4.82	4.51
659155	172139	R 1	—	Straight solder plug, 0.250 semi-rigid	0.250 semi-rigid	4.85	4.13	3.79
296577	172142	R 1	J	Straight crimp plug captive contact	RG-55/142/223/400	4.55	4.26	4.11
659243	172147	R 2	J	Straight crimp jack captive contact	RG-55/142/223/400	3.65	3.52	3.36
659201	172149	R 3	J	Bulkhead crimp jack captive contact	RG-8X/LMR240/B7808A	5.09	4.43	4.28
296585	172165	R 3	B	Bulkhead crimp jack captive contact	RG-316/U double braided	7.09	6.85	6.65
659139	172166	R 1	D	Straight crimp plug captive contact	RG-214/225	4.35	4.11	3.87
659121	172171	R 1	B/J	Straight crimp plug captive contact	RG-316/U double braided	5.45	5.19	4.95
659235	172173	R 12	B/J	Straight crimp panel jack captive contact	RG-174/188A/316/B7805A	6.29	6.03	5.76
659227	172175	R 12	J	Straight crimp panel jack captive contact	RG-55/142/223/400	7.25	6.88	6.61
659180	172176	R 12	L	Right angle crimp plug	B9913/LMR400/B7810A/B8214	6.05	5.50	5.17
659163	172177	R 12	A	Right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	7.99	6.80	6.24
296593	172178	R 13	A	Right angle crimp plug	RG-55/142/223/400	7.69	6.61	6.06
659171	172180	R 13	B/J	Right angle crimp plug	RG-174/188A/316/B7805A	7.95	7.54	6.98
296606	172203	R 2	L	Straight crimp jack captive contact	B9913/LMR400/B7810A/B8214	4.15	3.56	3.26
659147	172206	R 1	HEX	Straight crimp plug captive contact	LMR600	8.55	7.44	7.19
659219	172208	R 12	J	Straight crimp panel jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	5.55	5.31	5.06
659112	172214	R 1	J	Straight crimp plug captive contact	LMR200/B7807A	3.89	3.37	3.08
659323	202102	R 14	—	N male cap and chain, nickel plated	—	1.79	1.69	1.58

## Amphenol Connex

## TNC Connectors 50Ω/75Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296155	122108	R 15	A	50Ω straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	\$1.49	\$1.31	\$1.21
658574	122111	R 15	A	75Ω straight crimp plug	RG-59/62/140/210	1.40	1.34	1.28
658603	122116	R 15	B	50Ω straight crimp plug	RG-174/188A/316/B7805A	1.75	1.52	1.47
658671	122122	R 16	A	50Ω straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	1.99	1.69	1.55
658611	122140	R 17	A	50Ω right angle crimp/solder plug	RG-58/58A/58C/141/303/LMR195/B7806A	2.99	2.58	2.50
658638	122148	R 17	B	50Ω right angle crimp/solder plug	RG-174/188A/316/B7805A	3.45	2.97	2.87
296171	122160	R 18	A	50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	3.35	2.88	2.64
296180	122192	R 18	B	50Ω bulkhead crimp jack	RG-174/188A/316/B7805A	3.35	2.89	2.64
658700	122248	R 19	—	50Ω panel receptacle jack	All 50Ω coax cables	2.39	2.31	2.26
658697	122332	R 20	—	50Ω bulkhead receptacle jack, solder trmnl	—	1.65	1.59	1.49
658646	122358	R 18	B	50Ω bulkhead crimp jack	RG-316/U double braided	2.85	2.63	2.40
658654	122370	R 18	B	50Ω bulkhead crimp jack	RG-178/196	3.35	3.20	3.05
296163	122372	R 15	A	50Ω straight crimp plug	RG-55/142/223/400	1.47	1.41	1.35
658689	122373	R 20	A	50Ω straight crimp jack	RG-55/142/223/400	1.55	1.47	1.39
296201	122393	R 15	L	50Ω straight crimp plug	B9913/LMR400/B7810A/B8214	5.19	4.82	4.43
658582	122394	R 15	D	50Ω straight crimp plug	RG-8/8A/213/393	4.39	4.15	4.00
658591	122408	R 15	A	50Ω straight crimp plug	RG-8X/LMR240/B7808A	1.59	1.38	1.33
658566	122410	R 15	A	50Ω straight crimp plug	LMR200/B7807A	1.39	1.26	1.13
296219	122426	R 15	A	75Ω straight crimp plug	RG-59/U 20 AWG/B9108/B1515/B9104	1.85	1.79	1.76
658620	122430	R 16	A	50Ω right angle crimp/solder plug	RG-55/142/223/400	3.19	2.93	2.68

## Amphenol Connex

## SMB Connectors 50Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296411	142176	R 22	C	Right angle cable plug	RG-316U double braided	\$5.35	\$4.58	\$4.19
659358	142186	R 21	B	Straight crimp plug	RG-174/188A/316/B7805A	4.65	3.98	3.66
659366	142187	R 21	C	Straight crimp plug	RG-316U double braided	4.25	3.71	3.52
296446	142194	R 22	B	Right angle cable plug	RG-174/188A/316/B7805A	5.05	4.68	4.29
659340	142220	R 21	A	Straight crimp plug	RG-55/142/223/400	4.55	4.36	4.16
659374	142229	R 21	B	Straight crimp plug	RG-178/196	4.49	4.07	3.64
296438	142255	R 21	A	Straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	4.59	4.38	4.17

\* Crimp tools for these connectors are on page 165

Amphenol Connex

## SMA Connectors 50Ω

\* Crimp tools for these connectors are below

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
658718	132100	R 1	—	Straight cable plug, 0.141 semi-rigid	RG-402U .....	\$1.46	\$1.27	\$1.18
296227	132101	R 1	—	Straight cable plug w/ contact, 0.085 semi-rigid	RG-405U .....	2.79	2.34	2.15
296235	132102	R 1	—	Straight cable plug w/ contact, 0.141 semi-rigid	RG-402U .....	2.65	2.28	2.09
296251	132105	R 2	—	Bulkhead feed through cable jack-o-ring seal, 0.141 semi-rigid	RG-405U .....	5.19	4.46	4.09
296260	132106	R 2	—	Bulkhead feed through cable jack-o-ring seal, 0.085 semi-rigid	RG-402U .....	5.39	4.64	4.25
296278	132107	R 3	—	Panel mount cable jack, 4-hole square flange, 0.085 semi-rigid	RG-405U .....	4.65	4.45	4.24
658726	132108	R 3	—	Panel cable cable jack, 4-hole square flange, 0.141 semi-rigid	RG-402U/.141 semi-rigid .....	5.09	4.95	4.63
296286	132109	R 4	—	Panel mount cable jack, 2-hole flange, 0.085 semi-rigid	RG-402U .....	4.15	3.74	3.55
658734	132110	R 4	—	Panel mount cable jack, 2-hole flange, 0.141 semi-rigid	RG-402U/.141 semi-rigid .....	4.79	4.59	4.29
296294	132111	R 5	—	Right angle cable plug, 0.085 semi-rigid	RG-405U .....	4.91	4.36	3.98
296307	132112	R 5	—	Right angle cable plug, 0.141 semi-rigid	RG-402U .....	5.09	4.35	3.99
296315	132113	R 1	A	Straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	3.19	2.75	2.42
296323	132114	R 18	B	Straight crimp plug	RG-174/188A/316/B7805A .....	2.89	2.46	2.25
296340	132116	R 6	A	Straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A ..	4.25	3.87	3.54
658945	132117	R 6	B	Straight crimp jack	RG-174/188A/316/B7805A .....	3.69	3.33	3.00
658849	132118	R 7	A	Bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A ..	4.55	3.89	3.56
296331	132119	R 7	B	Bulkhead crimp jack	RG-174/188A/316/B7805A .....	5.29	4.53	4.15
296358	132122	R 5	A	Right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	6.09	5.19	4.77
296366	132123	R 5	B	Right angle crimp plug	RG-174/188A/316/B7805A .....	5.85	4.99	4.58
296374	132134	R 8	—	Straight jack, PCB terminals	All 50Ω coax cables .....	3.89	3.69	3.57
658996	132136	R 9	—	Right angle jack, PCB	All 50Ω coax cables .....	5.75	5.51	5.26
659016	132137	R 10	—	Bulkhead jack receptacle, solder terminal	— .....	4.79	4.61	4.40
296382	132146	R 3	—	Panel mount jack receptacle, 4-hole square flange	— .....	6.49	6.36	5.93
659024	132147	R 11	—	Panel mount jack receptacle, 2-hole flange	— .....	5.95	5.15	4.72
659032	132168	R 12	—	Plug-to-plug adapter	All 50Ω coax cables .....	4.59	4.38	4.17
659041	132169	R 13	—	Jack-to-jack adapter	All 50Ω coax cables .....	4.05	3.85	3.68
659059	132170	R 14	—	Jack-to-jack adapter, bulkhead feedthrough	— .....	6.19	5.89	5.56
659067	132171	R 15	—	Plug-to-jack adapter	All 50Ω coax cables .....	4.85	4.64	4.41
659075	132172	R 16	—	Right angle plug-to-jack adapter	All 50Ω coax cables .....	6.79	6.25	5.79
296391	132178	R 18	C	Straight crimp plug	RG-316U double braided .....	3.35	3.19	3.05
658822	132182	R 17	C	Right angle crimp plug	RG-316U double braided .....	5.85	5.54	5.29
658857	132191	R 7	A	Bulkhead crimp jack	RG-55/142/223/400 .....	4.49	4.38	4.19
658777	132193	R 18	B	Right angle crimp plug	RG-178/196 .....	4.99	4.79	4.49
658793	132194	R 19	A	Right angle crimp plug	RG-55/142/223/400 .....	5.59	5.39	5.22
296403	132195	R 1	A	Straight crimp plug	RG-55/142/223/400 .....	2.95	2.90	2.67
658961	132198	R 20	C	Straight crimp jack	RG-316U double braided .....	4.19	4.05	3.87
659008	132203	R 21	—	Right angle bulkhead jack, PCB	All 50Ω coax cables .....	8.95	8.03	7.25
658751	132231	R 1	A	Straight crimp plug	RG-8X/LMR240/B7808A .....	4.09	3.70	3.48
658742	132234	R 1	A	Straight crimp plug	LMR200/B7807A .....	2.85	2.57	2.32
658806	132235	R 19	A	Right angle crimp plug	LMR200/B7807A .....	5.69	4.86	4.46
658814	132239	R 19	A	Right angle crimp plug	LMR200/B7807A .....	7.65	7.39	6.99
658865	132241	R 7	A	Bulkhead crimp jack	RG-8X/LMR240/B7808A .....	4.55	3.89	3.55
658769	132298	R 19	L	Right angle crimp plug	B9913/LMR400/B7810A/B8214 .....	6.05	5.19	4.75
659091	132360	R —	—	Terminator plug	— .....	2.29	2.20	2.11
659104	132361	R —	—	Terminator jack	— .....	2.39	2.30	2.20
659083	202112	R 22	—	Male cap	— .....	1.49	1.42	1.35



Interconnects

Amphenol Connex

## Universal Hand Crimp Tools

Amphenol Connex 47 series coax crimp tools utilize industry standard crimp die-set dimensions. Full ratchet crimp action assures complete crimp before release.

Part No.	Product No.	Crimp Tool	Die Cavities (in.)	Cable Groups	1	5
667850	47-10070	A	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (for BNC/TNC connectors) .....	\$59.99	\$57.99
667905	47-10150	B	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (for BNC/TNC connectors) .....	52.25	48.09
667913	47-10160	C	.151/.178/.213	.151 Hex 316/179/Double braid .....	57.05	56.05
667868	47-10090	D	.429/.100/.080	RG-8/11/213/214/225/393/N Series (for N type connectors) .....	45.65	42.75
667981	47-10230	D	.429/.213/.100	RG-8/11/213/214/225/393/58/141/223/55/142/400 (for N type connectors) .....	46.75	44.99
667884	47-10110	E	.324/.255/.068/.042	RG-6/59/B8281 (for BNC/TNC connectors) .....	52.25	48.09
667892	47-10120	F	.213/.178/.068/.042	RG-58/174/188/316/179/187/142/141/223/400/55 .....	46.75	44.99
667921	47-10180	J	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors (for BNC/TNC/N connectors) .....	45.65	42.75
667964	47-10210	L	.429/.118	LMR400/B9913/B9914/B7810A .....	45.65	42.75
668027	47-10270	R	.178/.128/.068/.042	BNC/TNC .068 and .042 crimp center contact (for BNC/TNC connectors) .....	48.45	46.14
667833	47-10000	—	—	Frame only .....	43.75	40.71



RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## Amphenol Connex

### UHF Connectors and Adapters

- Frequency range: 0-300MHz
- Working voltage: 500V
- Contact plating: nickel and silver
- Cable type: **668385**: RG58/58A/58C/141/303/LM195/B7806A
- Cable type: **668393**: RG59/62/140/210

Part No.	Prod. No.	Fig.	Industry No.	Description	1	10	25
668377	182106	1	PL-259	Straight plug, solder, nickel finish, phenolic insulator	\$2.70	\$2.54	\$2.08
668385	182107	2	UG-175/U	Reducing adapter, nickel finish, for 668377	.53	.42	.35
668393	182108	2	UG-176/U	Reducing adapter, nickel finish, for 668377	.48	.432	.285
668449	182109	3	PL-258	Jack-to-jack adapter, nickel finish, teflon insulator	5.46	5.21	4.96



## JAMECO ValuePro

### BNC Connectors and Adapters

Quantity SAVE

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Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355099	31-2	1	UG-88/U	50Ω BNC plug, clamp, for RG-58 /141/142/400 cables	\$3.59	\$2.75	\$2.55
311344	31-10-RFX	2	—	50Ω BNC jack, bulkhead	2.46	2.11	1.84
355101	31-202	1	UG-88C/U	50Ω BNC plug, clamp, for RG-55/58/141/142/223/400 cables	3.95	3.24	2.39
355120	31-203	3	UG-290A/U	50Ω BNC receptacle, panel mount, solder cup	5.65	4.42	3.28
355128	31-208-RFX	4	UG-274A/U	50Ω BNC T-adapter, jack-plug-jack	3.29	2.81	1.92
355135	31-212	1	UG-260B/U	50Ω BNC plug, clamp, for RG-59/62/71/140/210/302 cables	3.49	2.67	2.00
363961	31-218	5	UG-491A/U	50Ω BNC straight adapter, plug-plug	7.69	5.49	4.12
355152	31-219-RFX	6	UG-914/U	50Ω BNC straight adapter, jack-jack	2.49	2.21	1.68
363979	31-220G-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.75	2.33	1.74
355362	6775	1	UG-959/U	50Ω BNC plug, clamp/solder, for RG-8/9/87A/213/214/225	8.09	7.99	5.99
311319	68175-5RFX	9	—	50Ω BNC 3-pc plug for crimp RG-59	1.05	.96	.72
311327	69475	1	—	50Ω BNC plug, clamp for RG-174/179/187/188/316	5.85	4.72	3.54
311351	31-220N-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.85	2.42	2.22
355179	31-221	8	UG-1094/U	50Ω BNC bulkhead receptacle w/ grounding lug, solder cup	2.09	1.61	1.18
311378	31-315	9	—	50Ω BNC 3-pc cable crimp plug, for RG-174 cables	4.49	3.80	3.12
355216	31-315-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables	1.55	1.36	1.03
355224	31-318-RFX	11	—	50Ω BNC bulkhead jack, for RG-174/188/316 cables	2.95	2.75	2.22
355240	31-320-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-58/141 cables	1.32	1.25	1.23
311394	31-321	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	3.75	3.39	3.05
311408	31-321-RFX	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	1.35	1.21	1.09
311511	31-70000	13	—	75Ω 3-pc plug, crimp, RG-6 type, Belden 9248/1694A	4.19	3.49	2.61
311520	31-70008-1000	13	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	4.65	4.23	3.17
311546	31-71008-RFX	14	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	1.55	1.31	1.18
311554	31-71013-RFX	15	—	75Ω BNC plug, crimp, for RG-179/187 cables	1.89	1.74	1.64
311562	31-71014-RFX	16	—	75Ω BNC jack, crimp, for RG-179/187 cables	1.89	1.62	1.41
311572	31-71032	17	—	75Ω BNC 3-pc plug, crimp, for Belden 8281/88281 cables	3.05	2.62	2.08
311589	31-71033	18	—	75Ω BNC 3-pc plug, crimp, for Belden 8218 cables	3.25	3.19	3.00



## JAMECO ValuePro

### TNC Type Connector

A JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311415	31-2367-RFX	19	—	50Ω TNC plug, crimp-crimp, for RG-58/141 cables	\$1.35	\$1.29	\$1.17



## JAMECO ValuePro

### Type N Connectors

A JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311600	82-97-RFX	20	UG-58A/U	50Ω Type N receptacle jack, panel mount	\$3.25	\$2.59	\$2.10
311619	82-202-1006	21	—	50Ω Type N clamp plugs, for B9913/Amp TWB 4001 cables	7.95	6.01	4.92



## JAMECO ValuePro

### SMA Connectors

A JAMECO EXCLUSIVE

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355283	901-143-6RFX	22	—	50Ω SMA jack, right angle, PC mount	\$4.35	\$3.85	\$3.60
355304	901-9877-RFX	23	—	50Ω SMA plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables	2.55	2.21	1.80



## JAMECO ValuePro

### MMCX Connector

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Quantity SAVE

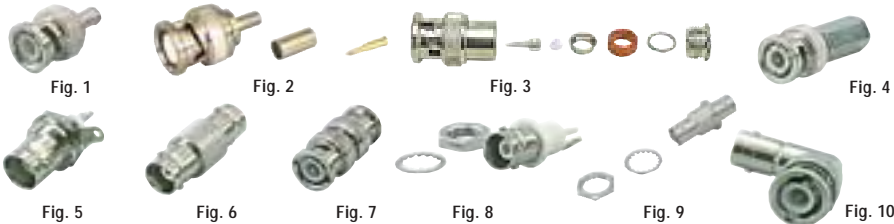
Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311686	908-43200	24	—	50Ω MMCX right angle plug, crimp for RG-178/U cables	\$6.35	\$5.15	\$3.86
311693	904-43300	24	—	50Ω MMCX right angle plug, crimp for RG-174/188/316	6.65	5.50	4.12



We carry major manufacturers – call or visit our website.

**BNC Coax Connectors**

- Miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz

**Quantity SAVE**

Part No.	Fig.	Description	1	10	100	500
71459	1	BNC male terminator (50Ω)	\$1.86	\$1.38	\$1.19	\$1.07
71790	1	BNC male terminator (75Ω)	1.62	1.31	1.07	.88
135618	2	BNC male with pin and ferrule (RG6)	1.18	.92	.60	.515
71482	2	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35	1.25
71271	2	BNC male with pin and ferrule (RG59/62)	.98	.80	.71	.65
112109	2	BNC male with pin and ferrule (RG174)	1.79	1.45	1.29	1.15
119394	3	BNC male clamp-on (RG59/62)	1.39	1.25	1.15	.89
71781	4	BNC male twist-on (RG59/62)	1.09	.99	.89	.79
71590	5	BNC female panel mount (UG-1094A)	1.79	1.62	1.50	1.31
71909	6	BNC female/female coupler (UG-914)	1.29	.99	.85	.74
127343	7	BNC male/male coupler (UG-491B/U)	2.39	2.15	1.67	1.55
111561	8	BNC female isolated bulkhead	2.29	1.99	1.79	1.59
148224	9	BNC female bulkhead feed-thru	1.99	1.89	1.69	1.49
148232	9	BNC female isolated bulkhead feed-thru	2.49	2.25	1.79	1.35
127352	10	BNC M-F right angle (DG-306B/O)	3.05	2.67	2.26	1.94
160929	11	BNC female, crimp type (RG58)	1.50	1.31	1.19	1.07
161922	11	BNC female, crimp type (RG174)	1.79	1.62	1.43	1.26
174290	12	BNC female chassis mount	1.43	1.18	1.06	.95
174297	13	BNC female twist-on bulkhead	2.25	2.02	1.62	1.22
174255	14	BNC male to F connector female	2.35	1.86	1.70	1.39

**BNC PCB Connectors**

- Maintains matching impedance at 50Ω & 75Ω
- Ideal for LAN cards & precision video

Part No.	Description	Length (L)	1	10	100	500
146511	BNC female R/A plastic insulation	1.37"	\$1.95	\$1.75	\$1.49	\$1.25
161656	BNC female right-angle metal	.861"	2.45	2.11	1.90	1.42

**BNC Adapters**

- Silver-plated
- General purpose coax T-adapter
- ThinNet/Ethernet LAN adapter



Part No.	Description	1	10	100	500
118594	Male to female/female T-adapter	\$2.87	\$2.58	\$2.10	\$1.50
72629	Female to female/female T-adapter	2.49	2.25	1.99	1.69
207087	Female to male/female T-adapter	9.55	8.59	7.16	5.37
100597	Male to female/female T-adapter (180°)	5.99	5.39	4.85	3.99
207116	Male to female/female/female T-adapter	7.19	6.45	5.79	4.95
117462	Male to female/female F-adapter (90°)	4.39	3.97	3.56	3.05
207168	RCA female to BNC female	2.39	2.15	1.91	1.67
114789	RCA female to BNC male adapter	1.59	1.23	1.16	1.15
207175	RCA male to BNC male	1.55	1.36	1.22	.92
114753	RCA male to BNC female adapter	1.59	1.45	1.29	1.09
114770	BNC female to "F" connector male adapter	1.79	1.59	1.39	1.19
207142	3.5mm mono male to BNC female	2.03	1.79	1.53	1.14

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**BNC Male Coax Cables**

Part No.	Description	1	10	50	100
176794	3' BNC to BNC	\$3.95	\$3.55	\$3.19	\$2.89
176815	6' BNC to BNC	4.95	4.46	3.57	2.68

**RG58/U 50Ω Cables**

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
181308	CRG58-1RR	1	\$3.65	\$3.29	\$2.95	\$2.75
102315	CRG58-1	1.5	3.99	3.39	2.87	2.15
256743	CBB-224-24	2	4.98	4.43	3.99	3.59
11404	CRG58-3	3	4.75	4.32	3.87	3.50
102331	CRG58-6	6	4.39	3.99	3.59	3.19
152311	RG58MF-6	6	2.99	2.75	2.49	2.19
180822	CRG58-10	10	5.85	5.19	4.16	3.12
102350	CRG58-12	12	4.95	4.49	3.99	3.39
169818	CRG58-15	15	7.14	6.44	5.60	5.21
102381	CRG58-100	100	16.19	14.57	11.66	8.74

\*152311 has male & female coax Blue Part No. = Limited Quantity

**Other Manufacturers**

102357	CRG58-25	25	\$7.79	\$7.01	\$6.32	\$5.70
102365	CRG58-50	50	12.45	11.19	8.95	6.71

**RG59/U 75Ω Cables**

- For CATV and video patch cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
86471	CRG59-1	1.5	\$3.95	\$3.61	\$3.38	\$2.59
85543	CRG59-6	6	4.65	4.22	3.40	2.55
102373	CRG59-12	12	5.99	5.40	4.85	4.35
262730	EBC-525	25	9.95	8.96	7.17	5.38
262748	EBC-550	50	17.05	16.25	15.45	14.69
262764	EBC-510	100	30.39	27.35	21.88	16.41

**RG174/U 50Ω Cables**

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
111473	RG174U3	3	\$5.45	\$4.93	\$4.45	\$4.03
111481	RG174U6	6	5.95	5.60	5.06	4.52

**Hex Crimp Tools**

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule
- 261745: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule
- 261737: Ferrules up to 1/2"

Part No.	Description	1	5
261745	Hex crimp tool (3/8")	\$19.99	\$18.99
261737	Hex crimp tool (1/2")	18.99	17.99

For more AMP RF connectors visit [www.Jameco.com](http://www.Jameco.com).

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## 75Ω "F" Connectors, Adapters and Terminators



Part No.	Ref. No.	Description	1	10	50	100
291531	200-028	Perma-seal, RG-6 coax	\$ .69	\$ .59	\$ .55	\$ .49
289924	200-038	RG-6 crimp-on weatherproof seal, brass	.69	.59	.49	.39
309657	200-045	RCA female to F male adapter	1.75	1.35	.97	.87
291725	200-051	F-jack to jack (gold)	1.14	1.02	.95	.90
295371	200-053	F-panel mount jack to jack (nickel)	.65	.55	.475	.38
295398	200-103	F-jack to push-on plug (nickel)	.85	.69	.63	.523
295380	200-107	F-R/A jack to plug (nickel)	1.75	1.58	1.26	.95
295531	200-117	F-jack to 3.5mm mono plug (nickel)	1.65	1.35	1.13	.93

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## SMA Connectors, Adapters and Couplers

Quantity SAVE



- Application: cellular phone, data communication, instrumentation and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

### Connectors

Part No.	Description	Cable Type	Plated	1	10	50	100
157972	SMA 50Ω crimp type male plug connector	RG-58	Gold	\$4.55	\$4.04	\$3.64	\$3.35
153365	SMA 50Ω crimp type male plug connector	RG-174	Gold	4.39	3.95	3.55	3.19
145381	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25 4.75	4.28	3.42	2.57
145373	SMA 90° female PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.32	3.99
153286	SMA bulkhead solder female w/ washer, rear mount	RG-58/174	Gold	3.49	3.29	2.99	2.79
159530	SMA female panel mount conn., 4 mounting holes	RG-58/174	Gold	2.95	2.65	2.35	2.10
160022	SMA female panel mount conn., 2 mounting holes	RG-58/174	Gold	4.79	4.31	3.90	3.54
160013	Panel mount feed thru connector female – female	—	Nickel	4.99	4.49	3.99	3.49

\* 159530/160022: Solder cup

### Couplers



Part No.	Description	Plated	1	10	50	100
153294	SMA straight coupler female – jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277	SMA 3-way coupler, 1 male – 2 female	Gold	3.49	3.15	2.85	2.55
161294	SMA straight coupler male – male	Gold	4.25	3.82	3.42	3.19
161307	SMA right angle coupler male – female	Gold	4.99	4.49	3.99	3.65

### SMA to BNC Adapters



Part No.	Description	Plated	1	10	50	100
153453	SMA female to BNC male adapter	Nickel	\$2.59	\$2.29	\$2.09	\$1.89
159468	SMA female to BNC female adapter	Nickel	3.09	2.82	2.52	2.29
153593	SMA male to BNC male adapter	Nickel	4.55	4.09	3.65	3.29
159476	SMA male to BNC female adapter	Nickel	3.59	3.23	2.94	2.63

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## SMB Connectors



- For use with RG-174 coax
- 50Ω crimp type
- Gold plated
- Use with crimping tool P/N 114535, pg 285

Part No.	Description	1	10	50
172364	Bulkhead crimp jack	\$3.49	\$2.95	\$2.49
172371	Cable crimp plug	4.85	4.33	3.72

JAMECO  
ValuePro

## SMB PCB Connector

- 0-4GHz electrical performance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper



Part No.	Description	1	10	50
167312	Right angle PCB	\$4.45	\$3.89	\$3.25

JAMECO  
ValuePro

## SMA/SMB 50Ω Coax Cables



Fig. 1: SMA male to SMA male  
 Fig. 2: SMA male to SMA right angle male  
 Fig. 3: SMA right angle male to SMA right angle male  
 Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370	RG-58	1	2	\$5.39	\$4.58	\$3.44
159397	RG-58	1	6	6.59	5.87	5.03
169801	RG-174	1	0.5	5.59	4.99	4.55
163855	RG-174	1	1	4.65	4.07	3.50
153382	RG-174	1	2	4.95	4.29	3.39
153391	RG-174	1	4	5.89	5.08	4.59
159451	RG-174	1	6	7.95	7.20	6.49
175127	RG-174	2	0.5	4.49	3.95	3.49
175135	RG-174	2	1	4.95	4.25	3.75
175143	RG-174	3	0.5	6.15	5.62	4.80
175152	RG-174	3	1	6.25	5.75	4.75
175169	RG-174	4	0.5	4.39	3.72	2.93
175178	RG-174	4	1	5.29	4.79	3.95

Crimping Tools  
on page 285



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For Molex RF connectors  
visit our website today.



## BEAU Terminal Blocks

- 0.375" double row
- Current rating: UL rated 15A @ 300V, #14AWG
- Wire AWG range: 12-24AWG
- Insulation resistance: >5000MΩ
- Terminal: brass, nickel plated
- Dielectric withstanding voltage: 7500VDC
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate



Part No.	Product No.	Beau No.	Pos.	1	25	50
659391	38770-0102	77002	2 ...	\$.74	\$.65	\$.60
659411	38770-0104	77004	4 ...	\$.98	\$.89	\$.85
659438	38770-0106	77006	6 ...	1.69	1.43	1.41
659454	38770-0108	77008	8 ...	1.89	1.71	1.66
659489	38770-0112	77012	12 ...	2.45	2.33	2.28
659497	38770-0114	77014	14 ...	2.99	2.76	2.20
659526	38770-0118	77018	18 ...	4.65	4.51	3.59

## Cinch Double Row Barrier Blocks

- Voltage rating: 250VAC<sub>RMS</sub> max.
- Eyelet material: brass with nickel plating
- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel w/ nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating



### 140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" • Density: 0.375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973	2-140	2	1.41" ....	\$.99	\$.89	\$.74
230981	3-140	3	1.78" ....	1.33	1.19	1.10
230990	4-140	4	2.16" ....	1.45	1.29	1.05
231001	5-140	5	2.53" ....	1.91	1.73	1.29
231010	6-140	6	2.91" ....	1.99	1.79	1.48
231028	7-140	7	3.28" ....	2.19	1.95	1.59
231036	8-140	8	3.66" ....	2.49	2.24	1.83
231052	10-140	10	4.41" ....	3.35	2.91	2.64
231061	12-140	12	5.16" ....	3.55	3.15	2.59

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: 0.438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351	2-141	2	1.63" ...	\$1.07	\$.85	\$.82
231378	4-141	4	2.50" ...	1.79	1.59	1.25
231394	6-141	6	3.38" ...	2.34	2.01	1.71
231415	8-141	8	4.25" ...	2.89	2.34	2.27
231431	10-141	10	5.13" ...	3.35	2.70	2.62
231440	12-141	12	6.00" ...	3.59	3.29	2.46

## Cinch Terminal Block Jumper

For connecting between adjacent terminals or alternate terminals. Use with Series 140 terminal blocks, above.



- 2-position • Brass with nickel plating

Part No.	Product No.	1	25	50
659382	140J-1	\$.22	\$.196	\$.182

## Cinch Plug Buttons

- Nickel plated steel
- Spring tension prongs



Part No.	Prod. No.	Hole Dia.	Cup Dia.	1	25
448622	41B	0.375"	0.500"	\$.84	\$.67
448606	41V	1.00"	1.156"	4.05	3.30



## Terminal Blocks and Header



- For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)
- 164814: Male header (.197") for use with 164794 and 164806

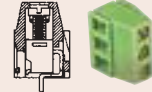


Fig. 1 (99398)

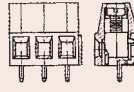


Fig. 2 (160785)



Fig. 3 (161067)

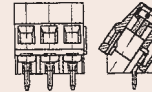


Fig. 4 (189676)

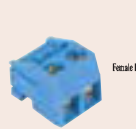


Fig. 5 (164794)

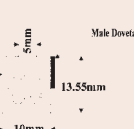


Fig. 6 (164806)



Fig. 7 (249084)

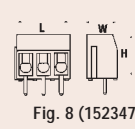


Fig. 8 (152347)

Fig. 9 (164814) use w/ Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99427	Dinkle	DT128/2	1	2	0.197"/5mm	\$.80	\$.61	\$.49	\$.44
99398	Dinkle	DT128V3P	1	3	0.197"/5mm	.99	.89	.79	.59
160785	Dinkle	EK500V-02P	2	2	0.197"/5mm	.65	.55	.45	.39
160793	Dinkle	EK500V-03P	2	3	0.197"/5mm	.99	.91	.80	.74
161067	Dinkle	EK500A-02P	3	2	0.197"/5mm	.85	.74	.55	.44
161058	Dinkle	EK500A-03P	3	3	0.197"/5mm	1.14	1.02	.87	.82
189676	OST	EDC500/2DS	4	2	0.197"/5mm	.79	.71	.64	.58
189667	OST	EDC500/3DS	4	3	0.197"/5mm	.89	.80	.72	.61
164794	OST	EDC130/2DS	5	2	0.197"/5mm	.59	.53	.47	.42
164806	OST	EDC130/3DS	6	3	0.197"/5mm	.99	.90	.81	.61
249084	OST	EDZ750/3	7	3	0.200"/5.08mm	2.09	1.91	1.69	1.59
152347	OST	EDC120/2DS	8	2	0.200"/5.08mm	.65	.55	.45	.39
152355	OST	EDC120/3DS	8	3	0.200"/5.08mm	.47	.44	.39	.30
164814	OST	EDSTL130/24	9	24	0.197"/5mm	2.63	2.37	2.16	1.64



## Metric Double Row Terminal Blocks

- Body material: black thermoplastic (UL94V-0)
- 12-18 AWG
- Terminals: brass tin plated
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC



### 10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm

Part Number	Cross Ref. No.	Poles	Dimensions A" B"	1	10	50
208856	GGE-10-4P	4	47.5 55 ...	\$.64	\$.61	\$.59
208865	GGE-10-6P	6	64.5 74 ...	1.05	.99	.97
208873	GGE-10-8P	8	95 102.5	1.69	1.59	1.49
208899	GGE-10-10P	10	104.5 112 ...	2.65	2.43	2.41
208882	GGE-10-12P	12	123.5 131 ...	2.79	2.49	2.25

### 20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm

Part Number	Cross Ref. No.	Poles	Dimensions A" B"	1	10	50
207547	GGE-20-6P	6	76.3 85.3	\$1.99	\$1.79	\$1.59
207554	GGE-20-8P	8	98.1 107.1	2.59	2.35	1.76
207563	GGE-20-10P	10	119.9 128.9	3.29	2.99	2.69
207572	GGE-20-12P	12	141.7 150.7	3.59	3.19	2.79



## European Terminal Blocks

- Number of poles: 12
- 1.2mm raised base
- Voltage: 600V
- Working temp.: 230°F (110°C)
- Terminal insert: brass metal alloy, nickel plated
- Material: Polyamide 66 (nylon 66), UL94V-2, natural
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed

Part No.	Cross Ref.	Amps	AWG	1	10	100
215011	PA8H	20A	12-22	\$1.79	\$1.59	\$1.29
215028	PA10H	30A	10-22	2.45	2.19	1.81
215036	PA12H	35A	10-22	2.35	2.03	1.91

## KULKA® 601 GP Series Double Row Terminal Blocks



- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • Width (W): 1.12"
- .437" (11 mm) centers • Height (H): .50"
- 1100V<sub>RMS</sub>; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved

Part Number	Product Number	Poles	Dimensions A" B"	1	10	50
188672	601GP8	8	3.94 4.25	\$3.54	\$3.30	\$2.99
188664	601GP10	10	4.81 5.13	5.05	4.59	3.99
188701	601GP12	12	5.69 6.00	6.29	5.77	4.47

DIN Rail-Mounted  
Terminal Block & DIN Rail

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.

- Molded thermoplastic • 14-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



248736 Sold in 1 meter (39") length

Part No.	Product No.	Type	1	10	100
237083	41296.2	SR2.5	\$ .89	\$ .79	\$ .69
248736	2094.0	TS35 x 7.5	7.15	5.72	4.31

## 3M Electrical Connector Kits



Quantity SAVE

Part No.	Description	1	10	25
651954	79 pc. electrical kit	\$17.25	\$14.66	\$11.00
651989	28 pc. 12-10AWG term. kit	8.99	7.64	5.73
651997	Asst. quick connect kit	7.99	6.79	5.09
652009	Asst. splice connect kit	8.99	7.99	7.19
652041	Heatshrink splice kit	14.89	12.66	9.50

## Wire Connectors

- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Strip wire before application
- Twist on type
- Material: PVC with metal spring, except: P/N 182449 nylon 66, 94-2 and P/N 140716 PE - metal inside
- 182449: UL/CSA approved

• Minimum order 10 pieces

Part No.	Description	10	100	1000
182449	Crimp 16-14 AWG	\$.075	\$.066	\$.05
182511	Wire nut 16 AWG	.045	.04	.035
140716	Wire IDC 22-18 AWG	.15	.14	.10

\* Requires crimping tool (P/N 72996, below)

Solderless Terminal  
Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W

Part No.	Product No.	1	10	25
72996	HT303	\$22.19	\$18.85	\$14.13

## 3M Connector Crimp Tool

This E-9Y Scotchlok connector crimp tool is used for crimping Scotchlok IDC telecom splices.

Part No.	Description	1	5	10
652244	Crimp tool	\$34.25	\$32.61	\$30.98

## Telecom Splice Connectors

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169755: Y-type

- Minimum order 10 pieces

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169747	Yellow	22-26	2	\$.124	\$.112	\$.149
169755	Red	19-26	3Y	.194	.182	.156

## 171-Pc. Solderless Terminal Kit

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	-
15	Ring term.	16-14	#6	10	Butt conn.	16-14	-
10	Ring term.	16-14	#8	5	Butt conn.	12-10	-

170 Terminals  
and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N 72996, left

• Blue Part No. = Limited Quantity

Part No.	Description	1	10	25
10989	Terminal kit	\$8.95	\$7.95	\$7.25



## P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with a copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- Temperature rating: 105°C
- Funnel ramp entry
- Meets MIL-T-7928

## Ring Tongue Terminals

		* Minimum order 10 pieces			
Part No.	Product No.	Stud Size	Wire (AWG)	Color	1 10 100
302607	323914	#4	26-22	Yellow	* .215 .235 .21
302615	323915	#6	26-22	Yellow	.19 .17 .163
302658	31880	#4	22-16	Red	.24 .174 .16
302666	36152	#6	22-16	Red	.23 .218 .205
527312	51863	#6	22-16	Red	.21 .159 .141
302674	31890	#8	22-16	Red	.20 .118 .108
527275	36153	#10	22-16	Red	.23 .171 .152
302682	36154	#10	22-16	Red	.23 .22 .20
302691	31894	1/4"	22-16	Red	.19 .165 .142
302720	320619	#6	16-14	Blue	.23 .167 .153
302738	320565	#8	16-14	Blue	.21 .18 .135
302746	36160	#10	16-14	Blue	.23 .193 .185
302754	321045	1/4"	16-14	Blue	.22 .21 .19
302797	35108	#8	12-10	Yellow	.22 .21 .19
302800	35109	#10	12-10	Yellow	.22 .21 .19
302818	35110	1/4"	12-10	Yellow	.40 .39 .26
302826	35111	5/16"	12-10	Yellow	.29 .245 .198
302834	35112	3/8"	12-10	Yellow	.39 .38 .26
841942	31886	#8	22-16	Red	* .155 .147
841977	31887	#10	22-16	Red	* .174 .162
847092	35107	#6	12-10	Yellow	* .18 .162
847341	35273	1/4"	12-10	Yellow	.66 .426 .406
847375	35345	1/4"	12-10	Yellow	* .437 .388
847498	35787	#8	12-10	Yellow	* .197 .183
847527	36150	#6	22-16	Red	* .138 .123
847543	36151	#6	22-16	Red	* .107 .095
847560	36158	#6	16-14	Blue	* .156 .135
850443	51864	#6	16-14	Blue	* .135 .124
850953	53073	#6	26-24	Yellow	* .243 .21

## Ring Tongue Terminals (Continued)

		* Minimum order 10 pieces			
Part No.	Product No.	Stud Size	Wire (AWG)	Color	1 10 100
842056	320553	#4	22-16	Red	* .135 .124
842081	320554	#8	22-16	Red	* .156 .135
842110	320560	#8	22-16	Blue	* .165 .157
842144	320561	#6	16-14	Blue	* .135 .123
842179	320563	1/4"	16-14	Blue	* .156 .145
842224	320567	#6	12-10	Yellow	.65 .40 .381
842259	320569	1/4"	12-10	Yellow	* .199 .188
842283	320571	1/4"	22-16	Red	* .155 .144
842304	320573	3/8"	22-16	Red	* .176 .17
842339	320574	#10	16-14	Blue	* .135 .119
842363	320576	5/16"	12-10	Yellow	.33 .308 .74
842398	320577	3/8"	12-10	Yellow	* .199 .188
842427	320634	#6	12-10	Yellow	* .197 .184
843008	324159	#4	16-14	Blue	* .182 .157
843091	324918	#10	12-10	Yellow	* .246 .231
843139	326875	#6	26-22	Yellow	* .138 .123
843163	326878	#6	22-16	Red	* .156 .135
843198	326882	#6	16-14	Blue	* .156 .135
843382	328975	1/2"	22-16	Red	.77 .68 .61
749353	2-320568	#8	12	Yellow	.69 .64 .59
836748	2-36153-3	#10	22-16	Red	* .279 .26
836764	2-36153-4	#10	22-16	Red	* .279 .26
836844	2-36161-3	#10	12	Yellow	.69 .55 .529
850380	51863-3	#6	22-16	Red	* .21 .191
850507	51864-7	#10	16-14	Blue	* .26 .235
851083	53405-1	#4	22-16	Natural	* .371 .346
851112	53407-1	#6	22-16	Natural	* .362 .404
851147	53408-1	#8	22-16	Natural	* .29 .265
851171	53418-1	#10	16-14	Natural	* .459 .40
852027	53941-1	#8	16-14	Blue	* .238 .20

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## AMP P.I.D.G. Insulated Terminals (Continued)



### Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	* Minimum order 5 pieces		
						1	5	50
302851	328394R	1	#2	22-16	Red	\$.21	\$.208	\$.185
302869	327717R	1	#4	22-16	Red	.31	.299	.266
302877	34541R	1	#6	22-16	Red	.24	.173	.158
302885	32053R	1	#8	22-16	Red	.31	.264	.227
302893	32054R	1	#10	22-16	Red	.20	.175	.167
302906	35559R	1	#6	16-14	Blue	.26	.25	.194
302914	32059R	1	#8	16-14	Blue	.23	.199	.15
302922	321233R	1	#8	16-14	Blue	.29	.284	.252
302949	326859R	1	#6	12-10	Yellow	.51	.429	.322
302957	32588R	1	#8	12-10	Yellow	.38	.371	.33

### Flanged Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	5	100
842865	322777R	2	#6	22-16	Red	*.155	\$.147	
302990	32498R	2	#8	22-16	Red	.60	.58	.55
303010	320862R	2	#8	16-14	Blue	.21	.15	.144

### Short Spring Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	5	100
850865	52924R	3	#6	22-16	Yellow	*.288	\$.269	
303141	52942R	3	#8	12-10	Yellow	.29	.28	.27

### Butt & Knife Disconnect Splices

Part No.	Product No.	Fig.	Description	Wire (AWG)	Color	1	5	50
303167	323994R	4	Butt	26-22	Yellow	\$.47	\$.443	\$.419
303175	320559R	4	Butt	22-16	Red	.56	.55	.42
303183	320562R	4	Butt	16-14	Blue	.46	.44	.42
303191	320570R	4	Butt	12-10	Yellow	.67	.65	.63
303212	32448R	5	Knife disconn.	16-14	Blue	.38	.348	.329

### Fast-On Receptacles

Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	5	50
303247	640923-1R	6	.110 x .020	22-18	Red	\$.22	\$.208	\$.196
303255	640917-1R	6	.187 x .020	22-18	Red	.22	.178	.173
303263	640909-1R	6	.205 x .020	22-18	Red	.23	.218	.206
303280	640903-1R	6	.250 x .032	22-18	Red	.20	.16	.13
303301	640919-1R	6	.187 x .020	16-14	Blue	.22	.21	.196
303319	640915-1R	6	.205 x .032	16-14	Blue	.22	.214	.19
303327	640905-1R	6	.250 x .032	16-14	Blue	.23	.183	.181
303343	640907-1R	6	.250 x .032	12-10	Yellow	.29	.273	.191

Blue Part No. = Limited Quantity Available

## AMP

## Plastic-Grip Insulated Terminals

Designed specifically to answer the need for inexpensive insulated electrical terminations. The wire and the terminal barrel form a homogeneous mass of metal, providing a connection of maximum conductivity, tensile strength and high resistance to corrosion.

### Ring Tongue Terminals (Fig. 1)

Part No.	Product No.	Stud Size	Wire (AWG)	Color	* Minimum order 5 pieces		
					1	5	50
844684	34141R	#4	22-16	Red	*.16	\$.15	
844705	34142R	#6	22-16	Red	*.16	.137	
844748	34144R	#6	22-16	Red	*.155	.147	
844772	34145R	#8	22-16	Red	*.118	.11	
844828	34148R	#8	22-16	Red	*.107	.098	
844801	34146R	#10	22-16	Black	*.157	.147	
844852	34149R	#10	22-16	Red	*.145	.137	
844879	34150R	1/4"	22-16	Black	*.155	.167	
844908	34158R	#6	16-14	Blue	*.155	.147	
844932	34159R	#6	16-14	Blue	*.149	.142	
844967	34160R	#8	16-14	Blue	*.116	.108	
843307	328527R	#8	16-14	Blue	*.15	.142	
844991	34161R	#10	16-14	Blue	*.151	.144	
845011	34162R	1/4"	16-14	Blue	*.113	.107	
845142	34852R	#8	12-10	Yellow	*.27	.255	

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

▲ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## AMP Fast-On Insulated Terminals

- One-piece fully insulated fast-on receptacle/tab with insulation crimp prevents shock and short hazards
- Designed for full mating with a variety of tabs and receptacles including those with shoulders
- Funnel wire entry and wire stop
- Assemblies contain wire size and tab size designation as well as color-coded for wire gauge designation

NEW



### Ultra-Fast Fully Insulated Receptacle Assembly (0.110"/0.125")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
837011	2-520273-2R	0.239"	22-18	Red	Brass, tin-plated	\$.155	\$.147

### Ultra-Fast Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
524197	2-520182-2R	0.300"	22-18	Red	Brass, tin-plated	\$.137	\$.126
526820	3-350816-2R	0.300"	16-14	Blue	Brass, tin-plated	.131	.113
837118	2-520409-2R	0.300"	22-18	Red	Brass, tin-plated	.194	.186
837134	2-520411-2R	0.300"	22-18	Red	Brass, tin-plated	.175	.162
841344	3-520125-2R	0.300"	16-14	Blue	Brass, tin-plated	.136	.122
841432	3-520151-2R	0.300"	16-14	Blue	Brass, tin-plated	.155	.147
841539	3-520412-2R	0.300"	16-14	Blue	Brass, tin-plated	.194	.186

### Ultra-Fast Fully Insulated Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
836959	2-520184-4R	0.373"	22-18	Red	Bronze, tin-plated	\$.213	\$.206
841264	3-520117-2R	0.373"	16-14	Blue	Bronze, tin-plated	.194	.186

### Ultra-Fast Fully Insulated Flag Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
837062	2-520337-2R	0.300"	22-18	Red	Brass, tin-plated	\$.233	\$.216

### Ultra-Fast Fully Insulated Flag Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
836924	2-520129-2R	0.373"	22-18	Red	Brass, tin-plated	\$.223	\$.206
841408	3-520133-2R	0.373"	16-14	Blue	Brass, tin-plated	.233	.206

### Ultra-Fast Fully Insulated Tab Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
524120	2-520103-2R	0.487"	22-18	Red	Brass, tin-plated	\$.19	\$.171
524146	3-520107-2R	0.487"	16-14	Blue	Brass, tin-plated	.173	.163

### Fast-On Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
966059	641321R	0.230"	26-24	Yellow	Brass	\$.243	\$.227

### Fast-On Uninsulated Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
848642	41729R	0.373"	18-16	—	Brass, tin-plated	\$.107	\$.098

### Ring Tongue Terminals (Continued)

Part No.	Product No.	Stud Size	Wire (AWG)	Color	* Minimum order 5 pieces		
					1	5	50
845177	34853R	#8	12-10	Yellow	*.281	\$.255	
845206	34854R	#10	12-10	Yellow	*.231	.255	
845231	34855R	1/4"	12-10	Yellow	*.33	.284	
850638	52041-1R	1/4"	8	Red	.78	.72	.68
850806	52263-1R	#10	8	Red	.95	.91	.87

### Short Spring Spade (Fig. 2)

850929	5294-9R	#6	22-16	Red	*.175	\$.167	
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### Butt Splices (Fig. 3)

Part No.	Product No.	Wire (AWG)	Size	* Minimum order 10 pieces		
				1	10	100
844060	34067R	22-16	1.065"L, 0.08-0.12" ID	*.193	\$.18	
844174	34072R	12-10	1.160"L, 0.15-0.25" ID	*.185	.176	
844107	34070R	22-16	1.076"L, 0.105-0.140" ID	*.135	.127	
844140	34071R	16-14	1.065"L, 0.115-0.170" ID	*.116	.108	
845038	34243R	22-16	1.030"L, 0.17" ID	*.204	.186	

**AMP Solistrand Uninsulated Terminals**

Designed to terminate solid and stranded wire, irregular shaped conductors, and combinations of these – still retaining the superior performance and characteristics of single purpose terminals and splices.

Corrosion resistant, vibration resistant and tensile strength of these terminals and splices are well within the limits of commercial military applications.

**Ring Tongue Terminals (Fig. 1)****NEW**

\* Minimum order 5 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
844220	34104	#4	22-16	...	...	...
844289	34107	#6	22-16	...	...	...
844318	34108	#8	22-16	...	...	...
844377	34111	#8	22-16	...	...	...
844406	34112	#10	22-16	...	...	...
844342	34109	#10	22-16	...	...	...
844422	34113	1/4"	22-16	...	...	...
844457	34115	3/8"	22-16	...	...	...
847404	35476	#6	12-10	...	...	...
843462	32994	#8	12-10	...	...	...
843665	33457	#10	12-10	...	...	...
843690	33458	1/4"	12-10	...	...	...
843631	33220	3/8"	12-10	...	...	...
751437	322242	3/8"	12-10	...	...	...
843737	33459	5/16"	12-10	...	...	...
844481	34120	#6	16-14	...	...	...
844537	34123	#10	16-14	...	...	...
844570	34124	1/4"	16-14	...	...	...
844254	34105	#6	8	...	...	...
842970	324061	#8	8	...	...	...
841862	31807	#10	8	...	...	...
843753	33460	#10	8	...	...	...
843788	33461	1/4"	8	...	...	...
847316	35247	1/4"	8	...	...	...
843841	33463	3/8"	8	...	...	...
843876	33464	#10	6	...	...	...
850751	52197	#10	6	...	...	...
842486	321298	#10	6	...	...	...
843905	33465	1/4"	6	...	...	...
842531	321598	1/4"	6	...	...	...
843956	33467	3/8"	6	...	...	...
843921	33466	5/16"	6	...	...	...
843606	33114	#10	4	...	...	...
751314	31811	1/4"	4	...	...	...
843981	33469	1/4"	4	...	...	...
844043	33471	3/8"	4	...	...	...
842726	321878	3/8"	4	...	...	...
844019	33470	5/16"	4	...	...	...
751656	327175	1/2"	4	...	...	...
924810	321880	1/2"	4	...	...	...
842021	320383	1/4"	2	...	...	...
752157	35184	3/8"	2	...	...	...
942989	36923	3/8"	2	...	...	...
842558	321600	3/8"	2	...	...	...
842662	321871	3/8"	2	...	...	...
942428	35183	5/16"	2	...	...	...
842890	322870	5/16"	2	...	...	...
847666	36925	1/2"	2	...	...	...
842574	321866	1/4"	1	...	...	...
847607	36917	3/8"	1	...	...	...
842638	321868	3/8"	1	...	...	...
842603	321867	5/16"	1	...	...	...
847631	36919	1/2"	1	...	...	...

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**AMP Solistrand Uninsulated Terminals (Cont.)****Spade Tongue Terminal (Fig. 2)****NEW**

\* Minimum order 5 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
842929	323127	#6	22-16	...	...	...

**Splices Terminals (Fig. 3)**

Part No.	Product No.	Wire (AWG)	Size	1	5	100
841889	31818	22-16	0.578"L x 0.141"Dia., 0.061" ID	...	...	...
841918	31819	16-14	0.567"L x 0.165"Dia., 0.085" ID	...	...	...
842515	32151	12-10	0.565"L x 0.165"Dia., 0.129" ID	...	...	...
844609	34130	22-16	0.301"L x 0.141"Dia., 0.061" ID	...	...	...
844633	34137	16-14	0.301"L x 0.165"Dia., 0.085" ID	...	...	...
844668	34138	12-10	0.343"L x 0.226"Dia., 0.129" ID	...	...	...
845062	34318	8	0.375"L x 0.296"Dia., 0.172" ID	...	...	...
845097	34319	6	0.437"L x 0.369"Dia., 0.232" ID	...	...	...
845126	34320	4	0.531"L x 0.463"Dia., 0.296" ID	...	...	...
847156	35187	2	0.640"L x 0.539"Dia., 0.370" ID	...	...	...
752237	36946	1	0.44" ID	...	...	...

**AMP Strato-Therm/Diamond Grip Terminals**

These insulated & uninsulated terminals are high-temperature circuit hardware. You'll find solutions to other more familiar circuit problems such as vibration, corrosion and flash-over, when they occur at high temperatures. Available in temperature ranges of up to 1200°F (649°C). Accommodates solid or stranded conductors.



Fig. 1



Fig. 2

**Insulated Ring Tongue Terminals (Fig. 1)****NEW**

Part No.	Product No.	Stud Size	Wire (AWG)	Color	1	5	100
924879	321898	#10	22-16	Orange	...	...	...
842831	322338	#10	16-14	Orange	...	...	...
842945	323749	#8	12-10	Orange	...	...	...
1404710	323751	1/4"	12-10	Orange	...	...	...

★ Please call or visit our website for minimum order and pricing

**Uninsulated Ring Tongue Terminals (Fig. 2)**

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
751517	323165	#10	8	...	...	...

**KEYSTONE Terminals****NEW**

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8

**PC Quick-Fit, Male**

• Material: brass, tin plated

\* Minimum order 5 pieces

Part No.	Product No.	Fig.	Thick	Description	1	5	50
1581679	1211	1	32μ	.110" straight solder	...	...	...
1581716	1267	1	20μ	.110" straight solder	...	...	...
1581935	4906	2	32μ	.110" right angle solder	...	...	...
1581687	1212	3	32μ	.187" straight solder	...	...	...
1581724	1285	3	20μ	.187" straight solder	...	...	...
1582372	1285-ST	4	20μ	.187" straight solder	...	...	...
1581919	4900	5	20μ	.187" straight solder	...	...	...
1581927	4904	2	20μ	.187" right angle solder	...	...	...
1581708	1266	6	32μ	.250" right angle solder	...	...	...
1581732	1287	3	32μ	.250" straight solder	...	...	...
1582381	1287-ST	4	32μ	.250" straight solder	...	...	...
1581741	1289	3	32μ	.250" straight solder	...	...	...
1581943	4908	7	32μ	.250" 30° solder	...	...	...
1581978	4966	2	32μ	.250" right angle solder	...	...	...

**PC Quick-Fit, Female**

• Material: 16μ brass, tin nickel plated

• Accepts: .250" x 32μ male tab

Part No.	Product No.	Fig.	Thick	Description	1	5	50
1581847	3528	8	16μ	.250" vertical solder	...	...	...



## Insulkrimp® Solderless Terminals



- Designed for dense packaging requirements; the profile height is lower than other competing products on the market
- Translucent "see-through" insulator provides fast, on-line quality control inspection by allowing a quick visual check of the wire/terminal assembly
- Terminal's funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back
- A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires

### Female Quick Disconnect

Prepackaged: please order in increments of 100

- Material: brass
- PVC insulation

Part No.	Product No.	AWG/Color	Tab Size (in.)	100	500	1000
489627	19003-0001-C	18-22/Red	0.250 x 0.032	\$.15	\$.133	\$.105
489635	19003-0011-C	18-22/Red	0.187 x 0.020	.15	.133	.105
489643	19003-0017-C	18-22/Red	0.187 x 0.032	.11	.105	.086
489651	19003-0024-C	18-22/Red	0.110 x 0.020	.11	.105	.086
489678	19003-0040-C	14-16/Blue	0.250 x 0.032	.10	.087	.076
489694	19003-0050-C	14-16/Blue	0.187 x 0.020	.11	.095	.086

### Ring Tongue

- Material: copper
- PVC insulation

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	100	500	1000
490741	19070-0075-C	14-16/Blue	1/4	1.062	\$.154	\$.116	\$.106

### Butt-Splice

- Material: copper
- PVC insulation

Part No.	Product No.	AWG/Color	Length (in.)	100	500	1000
503062	19154-0004-C	18-22/Red	0.960	\$.105	\$.086	\$.067
503089	19154-0015-C	14-16/Blue	0.975	.10	.086	.067

### Spade Tongue

- Material: copper
- PVC insulation

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	100	500	1000
502879	19144-0001-C	18-22/Red	5-6	0.326	\$.09	\$.086	\$.076
502887	19144-0003-C	18-22/Red	8	0.326	.09	.086	.076
502916	19144-0015-C	14-16/Blue	5-6	0.255	.10	.095	.086



## Krimptite™ Solderless Terminals

This Krimptite is the basic barrel style that is non-insulated and features a quality, one-piece design. It is also the most economical style and has the greatest variety of uses.



### Spade Terminals

- Material: copper
- Non-insulated

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG	Stud Size	Width (in.)	100	500	1000
502836	19141-0098-C	24-26	4	0.213	\$.029	\$.027	\$.025
502705	19141-0022-C	18-22	8	0.326	.034	.033	.032
502692	19141-0020-C	18-22	5-6	0.326	.039	.036	.092
502801	19141-0085-C	10-12	10	0.385	.074	.07	.069



## Versakrimp™ Solderless Terminals

When the butted seam Krimptite barrel is bonded with a special brazing alloy, it becomes a Versakrimp barrel. These brazed-seam barrel terminals and splices will not open under conditions of stress or wire pull. As versatile as it is tough, it can be crimped under most adverse conditions by many types of tooling. The Versakrimp is ideal for hard-to-crimp solid and stranded wires.



### Butt Splice

- Seamless barrel
- Material: copper

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG	Inner Diam.	Outer Diam.	Length	100	500	1000
494469	19215-0009-C	18-22	0.059"	0.130"	0.675"	\$.067	\$.06	\$.048
494477	19215-0018-C	14-16	0.091"	0.160"	0.675"	.114	.105	.086



## Avikrimp® Solderless Terminals



The Avikrimp® version of the fully insulated quick disconnects gives you the extra advantage of the secure metal support sleeve. These parts fulfill the double crimp (support) requirements of VDE and other DIN specifications.

### Male Quick Disconnect

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG/Color	Length	Tab Size (in.)	100	500	1000
489432	19001-0003-C	18-22/Red	0.900"	0.187 x 0.020	\$.187	\$.178	\$.169

### Female Quick Disconnect

Part No.	Product No.	AWG/Color	Length	Tab Size (in.)	100	500	1000
489475	19002-0001-C	18-22/Red	0.890"	0.250 x 0.032	\$.183	\$.156	\$.144

### Fully Insulated Flag Quick Disconnects

Part No.	Product No.	AWG/Color	Width	Tab Size (in.)	100	500	1000
489871	19007-0021-C	14-16/Blue	0.390"	.250 x 0.032	\$.127	\$.121	\$.115
489897	19007-0040-C	10-12/Yellow	0.390"	.250 x 0.032	.266	.247	.228

### Plugs

- Material: copper
- Thickness: 0.032" max.
- 0.145" max. wire insulation

Part No.	Product No.	AWG/Color	Barrel Length	Diam.	Max. Length	100	500	1000
490329	19036-0003-C	18-22/Red	0.254"	0.156"	0.897"	\$.156	\$.153	\$.193

### Spade Terminals

- Material: copper
- Nylon insulation

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	100	500	1000
501673	19115-0012-C	18-22/Red	8	0.320	\$.133	\$.124	\$.114
501711	19115-0020-C	14-16/Blue	10	0.338	.126	.12	.114
501817	19115-0079-C	14-16/Blue	8	0.320	.152	.143	.119
501753	19115-0035-C	10-12/Yellow	8	0.330	.224	.187	.149



## Perma-Seal™ Solderless Terminals

Perma-Seal terminals and splices give you long-lasting, moisture-proof connections that withstand water, salt, condensation, corrosion and heat, all of which cause serious problems for conventional, unsealed splices.

The inner wall of the heat-shrinkable Perma-Seal sleeve is lined with a special hot-melt adhesive that is inert at room temperature, permitting wires to be inserted easily into the splices and terminals.

- NiAc™ insulation



### Ring Terminals

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG/Color	Stud Size	100	500	1000
491031	19164-0085-C	18-22/Red	6	\$.399	\$.38	\$.361
491014	19164-0032-C	14-16/Blue	6	.418	.399	.38

### Butt Splice

Part No.	Product No.	AWG/Color	100	500	1000
491305	19164-0013-C	18-22/Red	\$.51	\$.446	\$.412
491313	19164-0044-C	14-16/Blue	.48	.432	.393

### Butt Splice Parallel Solder

Part No.	Product No.	AWG/Color	100	500	1000
491330	19164-0163-C	18-22/Red	\$.48	\$.44	\$.38
491971	19164-0164-C	14-16/Blue	.38	.37	.364

[www.Jameco.com](http://www.Jameco.com)

For more terminals from AMP and Keystone visit our website today.

# Solderless Terminals, Power Jacks & Plugs

Color Code Legend			
New	Sale	Lower\$	QtySave

## Vinyl Insulated Solderless Terminals

- Insulation thickness: .030" • Funnel ramp entry
- Temperature to 105°C
- Use with crimping tool P/N 72996, pg 170
- Sold in increments of 10



## Ring & Spade Solderless Terminals

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103684	Ring solderless	#6	22-16	Red	.084	.06	.081
103588	Spade solderless	#6	22-16	Red	.14	.065	.054
103596	Spade solderless	#8	16-14	Blue	.132	.075	.066

## Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106922	Female	.187"	22-16	Red	.084	.06	.063
103668	Female	.25"	22-16	Red	.084	.06	.074
109112	Female w/ hood	.25"	22-16	Red	.204	.132	.066

## Insulation Displacement Connectors (IDC)

### Self-Tapping (ID) Tap & Run Multi-lock Connectors

They will tap-splice, pigtail-splice, parallel splice or in-line splice insulated copper wire conductors for a wide range of applications.



Prepackaged: please order in increments of 100

Part No.	Product No.	AWG	Description	100	500	1000
494531	19216-0005-C	18-22	Red insulation	\$.114	\$.105	\$.086

### Ultimate Wire Tap

This Tap-And-Run splice is actually a fully insulated female quick disconnect that can be spliced onto a wire and then mated with a fully insulated male quick disconnect, without any special tools.



Part No.	Product No.	AWG	Description	100	500	1000
494549	19216-0009-C	12	Yellow wire tap	\$.182	\$.175	\$.168

## Fully Insulated Couplers

These fully insulated nylon couplers are precision engineered, allowing the female terminal to fit precisely into the corresponding male housing, which provides a fully insulated inline splice. This splice may be connected and disconnected without damage to the nylon insulation.



### Male Couplers

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG	Color	Tab Size (in.)	100	500	1000
489723	19004-0001-C	18-22	Red	0.250 x 0.032	\$.155	\$.137	\$.117
489731	19004-0005-C	14-16	Blue	0.250 x 0.032	.104	.099	.094

### Female Couplers

Part No.	Product No.	AWG	Color	Tab Size (in.)	100	500	1000
489758	19005-0001-C	18-22	Red	0.250 x 0.032	\$.124	\$.114	\$.095
489766	19005-0005-C	14-16	Blue	0.250 x 0.032	.095	.09	.086
489774	19005-0010-C	10-12	Yellow	0.250 x 0.032	.219	.181	.143

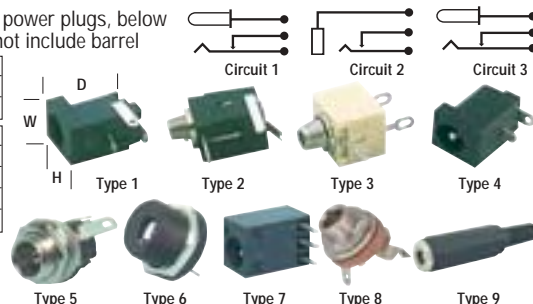
## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.  
Details on page 314.

## Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

Terminals	Code
Solder eyelet	A
PC board	B
Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F



Part Number	Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing			
1.3 mm Male Jacks						1	10	100	1000
101194	PP024	6.0 x 6.0 x 9.0	7/D	1/B	1.3 mm F	\$.62	\$.48	\$.44	\$.36

2.1 mm Male Jacks									
101179	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm F	\$.49	\$.44	\$.39	\$.35
137673	PP013	10.9 x 9.0 x 14.5	4/D	3/A	2.1 mm F	.40	.36	.32	.29
151590	DPJ-021A	13.0 x 12.6 Dia.	6/C	1/A	2.1 mm F	1.19	.99	.79	.69
151554	DPJ-026	15.1 x 8.0 Dia.	5/E	1/A	2.1 mm F	1.55	1.27	1.07	.90
159611	PJ1014A	35.8 x 12.6 Dia.	9/F	3/A	2.1 mm F	1.79	1.50	1.31	1.07

2.5 mm Male Jacks									
207714	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm F	\$.54	\$.42	\$.336	\$.252
101186	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm F	.65	.58	.462	.395
151563	DPJ-026A	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm F	1.49	1.24	1.13	.99
159506	PJ1015A	35.8 x 12.6 Dia.	9/F	3/A	2.5 mm F	1.67	1.50	1.36	1.22
202358	HD2388	17.0 x 12.0 Dia.	6/C	3/A	2.5 mm F	1.09	.98	.88	.79

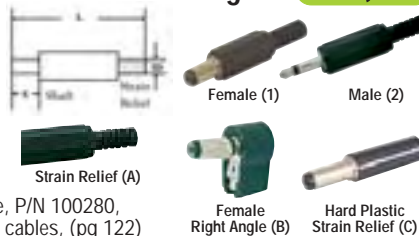
3.5 mm Female Jacks									
101143	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm M	\$.37	\$.276	\$.217	\$.167
109496	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm M	.53	.472	.425	.378
165730	PJ0354	8.9 x 5.7 Dia.	8/C	3/A	3.5 mm M	.79	.67	.56	.45










Blue Part No. = Limited Quantity Available

## Male & Female Power Plugs

Quantity SAVE

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 237-240
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280, to make custom length power cables, (pg 122)



Part Number	Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S x L x ID (strain relief)	Type	Pricing			
					1	10	100	1000
Female Plugs								
71192	PP137 	1.3 x 3.5	9.6 x 43.9 x 4.8 (blk)	1/A	\$.95	\$.86	\$.78	\$.71
191484	PP049W 	2.1 x 5.5	9.6 x 43.9 x 4.5 (wht)	1/A	.69	.62	.56	.42
28760	PP049 	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (blk)	1/A	.71	.59	.468	.348
147329	PP049L 	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (blk)	1/A	1.09	.97	.88	.79
138587	PJ021R 	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (blk)	1/B	.89	.75	.65	.59
190538	PP109S 	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (blk)	1/A	.39	.32	.29	.248
28768	PP109 	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (blk)	1/A	.89	.74	.59	.497
147336	PP109L 	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (blk)	1/A	.90	.82	.65	.492
168242	PP109N 	2.5 x 5.5	13.7 x 36.5 x 3.9 (blk)	1/C	.65	.536	.471	.383

### Male Plugs

101135	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (blk)	2/A	\$.71	\$.64	\$.468	\$.348
101152	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (blk)	2/A	.58	.45	.42	.35

## Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse



Part No.	Description	1	10	100
115002	W/ 5A/250VAC fuse	\$2.34	\$1.98	\$1.43
124760	W/ 3A/250VAC fuse & 3' cord (pigtail end)	2.19	1.98	1.94

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Scott Edwards Electronics, Inc. Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 129) or modular adapter from DB9 to RJ11 (P/N 114738, pg 129)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty

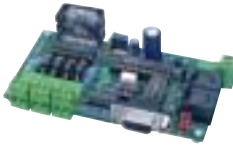


Part No.	Description	1	10
151001	Mini SSC II .....	\$43.95	\$41.79

## 32-Bit Stepper Motor Controller

### One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Size: 4.4"L x 2.3"H
- Weight: 0.7 lbs.



**DPONTECH**

Includes: Manual and sample code software

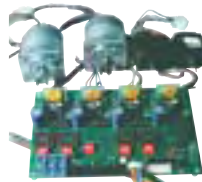
Part No.	Description	1	10
153621	32-bit controller  .....	\$158.95	\$150.99

See our extensive motor selection on pages 176-180.



## Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec. • Size: 7.7"L x 5.0"W x 1.0"H
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control • Weight: 0.7 lbs.
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles

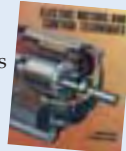


Shown w/ motors - not included

Part No.	Description	1	10
168727	Stepper motor control brd ....	\$399.95	\$379.95

## Electric Motors & Control Techniques

**TAB Publishing** Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)

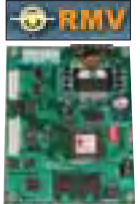


- Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	Price
137162	Electric Motors & Control .....	\$24.95

## Sport232-ST One Axis Stepper Motor Controller and DAC Boards

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic) 355047
- 8 Digital I/O and 8 analog inputs with 12-bit resolution
- Free 32-bit DLL for Windows® 9x/NT/2000/XP, Linux and Labview



Part No.	Description	1	10
355047	Sport232-ST .....	\$147.25	\$137.75
1537344	Sport232-ST1  .....	247.99	237.99



## RMV856-ET Stepper Motor Controller

- CMOS, +5V device combines high performance with low cost
- Capable of generating step rates from 16 steps/sec to 8500 steps/sec using pulse and direction signals
- Internal step register counts up to 16 million steps per motion
- 8 Digital I/Os can be addressed individually by one command
- External programmable events: trigger waits, loops, program branches and stepping motions
- Supports programmable start rate, accel/decel, slew rate and absolute or relative control position
- Programmable stall detection feature controls positioning error • Internal or external direction control and separate limit switch for interfacing analog to digital or digital to analog converter



**SALE**

Part No.	Package	1	10	50
355266	PLCC-44 .....	\$44.45	\$40.00	\$36.00

## KAE

## Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port.

### 184989/323942: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps
- P/N 323942 RS485 serial interface allows up to 32 PIC-SERVO controllers to be controlled from a single serial port



184989



323942

Part No.	Description	Size (L" x W" x H")	1	10
184989	PIC-SERVO	3.1 x 2.1 x 0.9 .....	\$190.25	\$171.24
323942	KAE-TOVIO	3.1 x 2.1 x 0.9 .....	169.55	152.59
185009	KAE-TOV5-BD3-PHV1	3.1 x 3.1 x 1.0 .....	271.79	244.69
323951	KAE-TOVIO	3.1 x 3.1 x 0.9 .....	241.55	218.31
184997	PIC-STEP	3.1 x 2.1 x 0.9 .....	159.95	143.95

### 185009/323951: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Same features as P/N 184989 left but with support for linear & circular interpolation using the PIC-SERVO CMC chipset
- P/N 323951 Amplifier capable of driving 6A continuously @ up to 48VDC



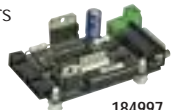
185009



323951

### 184997: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers



184997



Jameco's Got  
The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

## Bipolar and Unipolar Stepper Motors

SALE

Quantity SAVE

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998, pg 307, for shaft coupler

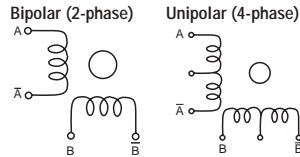


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9






Part No.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																		1	10	50
237526	42BYGH001	3	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$22.35	\$19.01	\$14.26
237497	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	16.45	13.95	10.47
237489	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	19.14	16.26	13.11
237577	57BYG061	4	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	25.45	20.99
237518	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.79	17.04	12.78
395567	42BYG022-40	3	Bipolar	9.6	1.8	100	240	46	—	1100	1.70	0.90	0.20	0.26	1.67	1.29	0.43	16.95	14.41	10.81
155459	42BYG023	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	21.54	19.55	17.51
237471	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237462	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	16.25	14.79	12.67
237447	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	900	1.02	0.10	0.20	0.83	1.38	1.14	0.33	13.95	11.86	10.48
237569	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	27.45	20.58
237614	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.55	32.01	28.78
237534	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	18.65	15.90	11.91
237552	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	35.79	32.19	28.97
237593	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	137.65	103.24
237622	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	32.04	24.03
237606	57BYGH001	6	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237825	25BY4801	7	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	5.95	4.95	4.43
237673	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.52	4.37
237738	42BY48H08	8	Unipolar	5	7.5	9.1	550	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.28	7.89	7.09	6.39
223870	57BYG070	4	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	42.45	31.83
237631	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	54.90	41.17
172646	42BYG205	4	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	21.35	19.27	17.32
224021	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	20.34	17.28	12.96
155432	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	18.99	16.99	15.49
237543	57BYG007	4	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	28.75	24.44	18.92
238537	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.75	17.75
162026	57BYG084	4	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	30.99	27.93	25.13
237892	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	2.28	0.08	0.12	0.30	1.65	0.58	0.21	7.59	6.84	6.16
173180	30BYJ02AH	7	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	12.05	10.25	7.68
237438	35BYG007	5	Unipolar	15	1.8	28	400	—	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	13.95	11.86	10.48
238115	35BY48B08	1	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.19	5.68	5.17
237729	42BY48H07	8	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.89	6.71	6.20
237585	110BYG450C	4	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	122.25	112.59	102.35

\* 395567/155459: Dual shaft

\*\* 173180: Gear ratio 85.25:1

Blue Part No. = Limited Quantity Available

## Other Manufacturers — Great Deals

<div><div><div>163395</div></div><div><div><div>NEW</div><div>1581231</div></div><div><div>454475</div></div><div><div>454467</div></div><div><div>171601</div></div></div></div>																		
Part No.	Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Pricing		
																1	10	50
1581231	PX243M-01AA <sup>2</sup>	Bipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	\$11.95	\$10.95	\$9.49
163395	5017-935 <sup>1</sup>	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	5.59	4.79	3.59
454475	41118S-62-07	Bipolar	24	1.8	0.6	2500	.93	—	3240	—	—	0.190	0.50	1.67	1.34	27.95	25.16	22.64
454467	4218L-01-11	Bipolar	24	1.8	1.2	2000	2	—	5401	—	—	0.190	0.50	1.67	1.83	19.95	17.96	16.16
171601	PF35T48L4 <sup>2</sup>	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	5.99	5.39	4.50

<sup>1</sup> 163395: Dual shaft <sup>2</sup> 171601: Dual shaft w/ 10 tooth gear

## High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. (3500 g-cm) @ 4.8V
- Can be operated by P/N 151001, pg 175



Part No.	Description	Size	1	10
157067	Robotic servo	0.8"W x 1.4"D x 1.6"H	\$19.95	\$17.95

## Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Supply voltage: 4.8-6 volts
- Speed: 1.9 seconds to 60°
- Torque: 161 oz.-in. (11,500 g-cm) @ 4.8V
- Can be operated by P/N 151001, pg 175



Part No.	Description	Power Supply	1	10
166351	Giant robotic servo	4.8-6 volts	\$44.95	\$42.69

## DC Motors

**JAMECO ReliaPro**

### 1.5-112VDC Motors

Jameco has a broad selection of DC Motors available for immediate delivery! In fact, we're the only place in the country where you can buy so many types off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the products below.

**Typical applications:**

- RC cars and airplanes
- Arcade games
- Vending machines
- Office automation products
- Motorized toys
- Vacuum cleaners
- Hair removers
- Blow dryers
- Tire pumps
- Paper shredders
- Cordless power tools
- Christmas trees



**SALE**

**Quantity SAVE**



### Nichibo-Type

Part No.	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (")	Shaft Length (")	Body Size (in) Dia. x Depth	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917	FE-260-2670	1	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	\$1.19	\$1.01	\$0.76
231909	FE-260-18130	1	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.83
231829	PC-280-16210	2	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	1.75	1.56	1.40
231781	PC-130F-12240	3	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231992	UC-260-18160	4	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
232063	FC-280-20120	5	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	1.37	1.23	1.11
232143	FF-050S-11170	6	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
232012	MD5-12160	7	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231732	PC-130SF-09480	3	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231896	FE-260-08450	1	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
232021	MD5-1885	7	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
232039	MD5-2070	7	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.57
232127	MD5-2554AS-AA	9	12	6-12	1.70	17000	72.9	62.4	Quick connect	0.091	0.512	1.083 x 1.279	2.25	2.02	1.82
232119	MD5-2450AS-AA	9	12	6-12	2.00	17200	77.5	55.9	Quick connect	0.091	0.512	1.083 x 1.279	2.25	2.04	1.84
232047	MD5-2445	7	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231941	UC-280S-12285	8	24	12-24	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	2.25	1.89	1.69
232101	MD5-1980AS-AA	9	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	4.29	3.64	2.73

Blue Part No. = Limited Quantity Available

### Mabuchi-Type

238465	RF-310TA-11400 (CCW)	10	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.700	0.962 x 0.712	\$2.99	\$2.55	\$1.91
238457	RF-300PA-11400 (CW)	11	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.200	0.960 x 0.504	5.15	4.59	4.12
238511	RF-500TB-12560	12	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	2.86
238449	EG-530AD-9B (CCW)	13	9	6-11	0.09	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	5.63	4.79	3.59
238473	RF-370CA-15370	14	12	3-12	0.17	4840	187	—	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	3.54
238414	EG-530AD-2B (CCW)	13	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	3.82	2.86
238406	EG-530AD-2F (CW)	13	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	6.47	5.50	4.13

### Hi-Torque

237391	29SYT003	15	13.5	13.5	13	18000	509	—	Quick connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.05	\$3.93
237382	29SYT002	15	24	24	0.93	2680	178	—	Wire	0.100	0.334	0.787 x 1.89	7.19	6.11	4.58



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## 1.2VDC-24VDC Motors

Quantity SAVE



star motor



154915/  
154923



177498



174692



206949



667411



153656



267291

Part No.	Product No.	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (in.) (Dia. x Depth)	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
154915	ST-130-12240	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	\$1.29	\$1.16	\$0.86
154923	ST-130-22770	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	1.19	1.07	.80
177498	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11"/solder	0.08	0.43	0.95 x 1.20	1.95	1.66	1.25
174692	21226-384221	Johnson Electric	12	9-14	0.015	3000	—	—	0.11"/solder	0.08	0.69	0.97 x 1.19	2.49	2.25	1.67
206949	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	2.15	1.93	1.73
667411	RF270RH-12370	Mabuchi Motor	12	6-15	0.140	5130	19.2	—	.08"/quick conn.	0.08	0.59	0.96 x 1.21	2.95	1.59	1.39
153656	RS550PF	Mabuchi Motor	12	6-15	1.400	6500	44.1	—	0.15"/solder	0.13	0.66	1.45 x 2.25	3.29	2.99	2.69
267291	SUN-555A-LMRK	Telco	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.59	2.29	1.72

1 154915/154923: Use bushing P/N 162392, pg 307

2 Manufacturer may vary



## 6VDC and 12VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC



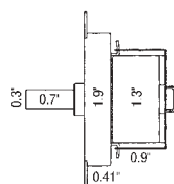
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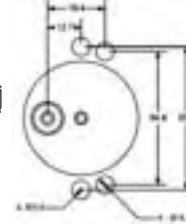
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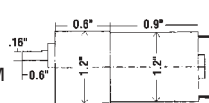
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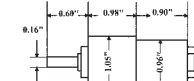
32GM Series



GH30GM Series



HN27GD Series



Quantity SAVE

### 32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253403	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7		\$18.49	\$16.15	\$14.55
253374	32-006	6	51	4	1680	300:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7		18.49	16.15	14.55
253340	32-005	6	48	5	1600	240:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7		18.99	16.19	14.59
253307	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7		20.65	17.55	13.16
253228	32-001	6	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7		19.25	17.35	15.59

### HN27GD Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
167039	GH12-0953Y	12	4.5 - 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	0.16 x 0.60	\$18.45	\$16.63	\$15.00
167047	GH12-1828Y	12	4.5 - 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	0.16 x 0.60	23.79	21.43	19.27

### GH30GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
170642	GH12-1828Y-10	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	\$27.35	\$23.22	\$17.42
153438	GH12-1045Y	12	3.0 - 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	0.16 x 0.70	18.95	17.09	15.35
159418	GH12-1921Y	12	4.5 - 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	24.39	21.97	19.75
162191	GH12-1324Y225	12	4.5 - 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	0.16 x 0.70	17.79	16.01	14.44



For more Gears,  
SS-Shafts,  
Couplings, etc.  
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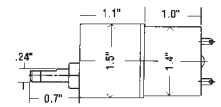
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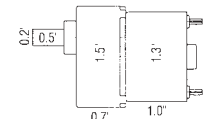
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by 10%, right down to our cost!

**12VDC and 24VDC Reversible Gear Head Motors****GH35GM Series**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
155012	GH12-1926	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79	\$17.79
155821	GH12-1830Y-P	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.89	20.63	18.54
155839	GH12-1641T-L	12	3.0 - 12	250	15	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.35	22.85	20.59
152911	GH12-1926Y	12	4.5 - 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	23.89	21.50	19.32
151441	GH12-1632TI	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854	GH12-1641T-F	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.49	21.29	19.29
155863	GH12-1926Y-F	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.99	21.99	19.99
161373	GH12-1345T	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	20.35	15.26
161382	GH12-1634T	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164785	GH12-1640Y	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	27.05	24.40	21.98
176049	GH12-1640Y00	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	15.52
176032	GH24-1640Y06	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.75	21.37	19.21
176023	GH24-1640Y19	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.60	19.42

**GH35GM Series**

155012

**38GM Series**

253446



1537168



1537176

**38GM Series**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253534	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$21.85	\$19.71	\$17.70
253527	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253519	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253500	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.79	18.52	17.59
253497	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	20.39	18.39	16.52
253490	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253472	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.89	19.75	17.75
253455	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253446	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.69

**Other Manufacturers**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
1537168	17N-78-210E-1	12	7.7	8500	948	352:1	0.6 x 1.1	0.7 x 1.0	0.1 x 0.3	\$17.95	\$16.49	\$14.95
1537176	17N-78-213E-1	12	9.1	8300	1091	166:1	0.6 x 0.8	0.7 x 1.0	0.1 x 0.4	17.95	16.49	14.95

**1.3VDC and 3VDC Vibrating Motors**

• Typical applications: cellular phones, pagers and toys

**SALE****Quantity SAVE**

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

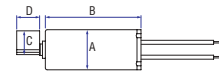


Fig. 3



Fig. 5

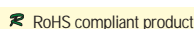
Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia. " x Depth"	Shaft Size (C x D) Dia. " x Length"	Pricing		
									1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.94	\$3.67
256356	72K642	3	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	2.99 2.59	2.32	2.09
175396	OTL-4AL	2*	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.8	0.16 x 0.55	0.15 x 0.23	6.49	5.51	4.13
256306	62K003	3	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256365	72K692	3	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256382	72K681	3	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256314	62K053	3	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256330	62K261	5	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC Term	0.27 x 0.48	0.11 x 0.11	2.35	2.15	1.95
256090	42K091	3	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85

**Other Manufacturers**

190078	6CD-1201WL-00	4*	1.3 @ 80	1.3, typical	7500 @ 1.3	1.1	0.24 x 0.47	0.10 x 0.22	\$3.25	\$2.95	\$2.21
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\*More details on page 180

Blue Part No. = Limited Quantity Available

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

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**JAMECO ReliaPro**

**1.3VDC 8,500 RPM Vibrating Motor**

• Typical applications: cellular phones, pagers, and toys  
• Rated RPM: 8,500 @ 1.3VDC  
• Direction of rotation: clockwise  
• Operating voltage: 1.3V @ 65mA (typical)  
• Lead length: 0.75"  
• Size: (motor) 0.16"Dia. x 0.55"L (shaft) 0.15"Dia. x 0.23"L

**Quantity SAVE**

Part No.	Description	1	10	100
175396	Vibrating motor	\$6.49	\$5.51	<b>\$4.13</b>

**Namiki**

**1.3VDC 7,500 RPM Vibrating Motor**

• Typical applications: cellular phones, pagers and toys  
• Rated RPM: 7,500 @ 1.3VDC  
• Clockwise rotation  
• 1.1" lead wires  
• Operating voltage: 1.3VDC @ 80mA  
• Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.

**Quantity SAVE**

Part No.	Description	1	10	100
190078	Vibrating motor	\$3.25	\$2.95	<b>\$2.21</b>

**120VAC Gear Motor**

**6.0 RPM - 2.9 Watt**

• Operating voltage: 120VAC @ 60Hz  
• Torque: >3.6 kg-cm  
• Connector: 12" wires  
• Screw down tabs for mounting (2.3" diagonal mounting hole space)  
• Shaft diameter: 0.27" • Shaft length: 0.65"  
• Overall size: 2.0" Dia. x 1.0" thick  
• Typical applications: air conditioner turnleaf motor, microwave turnplate motor

Part No.	Cross Ref. No.	1	10	100
213488	50TYZ	\$19.75	\$17.75	\$15.97

## Solenoids

**JAMECO ReliaPro**

**12VDC and 24VDC Continuous Push, Pull and Push/Pull Solenoids**

262247 262290 262263 262272 262167 142464 262203

262183 215141 149754 149762 262175 262191 145314

Part No.	Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke (ins.)	Size L x Dia. (ins.) ↑	Shaft Dia. (ins.)	Wt. (lbs.)	Pricing		
											1	10	100
262247	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$9.99	\$8.89	\$7.99
262290	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	14.75	13.26	11.97
262263	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	9.95	8.92	8.02
262272	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	10.07	9.11	8.22
262167	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	11.94	10.74	9.78
142464	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	7.99	7.59	7.20
262203	SMT-3864L24STD	Tubular-pull	24	34	17.0	1.32	1.18	2.5 x 1.5	0.620	1.10	29.95	25.45	20.99
262183	SMT-3257L24STD	Tubular-pull	24	44	13.0	3.30	0.70	2.3 x 1.3	0.500	0.65	19.59	17.69	15.89
215141	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.31	6.98
149754	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	14.95	14.25	13.49
149762	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	11.75	10.57	9.51
262175	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.39	12.99
262191	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	23.94	21.54	19.43
145314	SMT1913S12A	Tubular-push/pull	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

↑ Open frame type dimensions: L" x W" x H" \* Dual shaft

## 12VDC Solenoid Valve

- Operating voltage: 12VDC
- Current: 350mA
- Operational temperature: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals

Part No.	Description	Dimensions	1	10	100
169835	Solenoid valve	1.2"L x 0.92" Dia.	\$8.05	\$7.25	\$6.48



## 30-Day Money-Back Guarantee

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Details on page 314.

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



159572



159581/187792



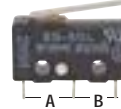
187805

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (Initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
159572	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A @ 125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.25" quick disconnect	\$2.89	\$2.54	\$2.28
159581	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A @ 125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.08	1.56
187792	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A @ 125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
187805	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A @ 125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H



187709



187733



159599

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
187709	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733	SS-5GL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.25	1.15	1.09
159599	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	1.29	1.07	.96



## D2F Series Subminiature Snap-Action Switch

Super compact for PCB mounting.

- Dimensions: 0.50"L x 0.23"W x 0.26"H
- Contact form: SPST • Contact force: standard (80g)
- Contact rating: 3A @ 125VAC; 2A @ 30VDC
- Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom



Part No.	Product No.	Actuator Type	Contact Type	1	25	50
188867	D2F-L	Hinge lever	General purpose	\$ .89	\$ .83	\$ .79



## Miniature Snap-Action Switch



Part No.	Product No.	Current Rating	Contact Form	Actuator	Terminals	Pricing		
						1	25	50
617844	35-880	10A @ 125VAC	SPDT	Lever	0.187" QC	\$2.39	\$2.21	\$2.07

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## D4 Series Miniature Snap-Action Switches

- Electrical life: 6,000 cycles min. per UL
- Actuating button: thermoplastic acetal/polyester
- Common terminals: silver-plated brass
- Auxiliary actuator: aluminum, stainless steel, or cold-rolled steel (nickel plated)
- UL94V-0 rated
- Temperature rating: -40°C to +85°C
- Mounting: recommend #4-40 round head
- Case: thermoplastic polyester
- Contact form: SPDT



482855



483284

Part No.	Product No.	Lever Type	Contact Rating	NO/NC Terminals	Moving Blade	Contacts	Terminal Type	1	10	100
482855	D41LR1RA	Standard ratio roller, 0.81"L	0.1A @ 125/250VAC	Brass	Brass	Gold cross point	Quick conn. 0.187" straight	\$5.45	\$4.63	\$3.71
482919	D42CR1LD	Standard ratio lever, 2.757"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	2.79	2.08	1.86
482978	D42LR1XL	High ratio alum. lever, 2.932"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	5.45	3.99	3.27
483102	D43CR1RA	Standard ratio roller, 0.81"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	3.35	3.10	2.19
483284	D44CR1RD	Standard ratio roller, 1.34"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.15	2.30	2.04
483401	D44LR1RA	Standard ratio roller, 0.81"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.19	2.56	2.37
483268	D44CR1LD	Standard ratio lever, 1.400"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.15	2.04	1.94

## DA Series Subminiature Snap-Action Switches

- Contact rating: 0.1A @ 125VAC
- Electrical life at rated load: 100,000 cycles per UL
- Temp. rating: -40°C to +85°C • UL94V-0 rated
- Case: thermoplastic polyester • Terminals: silver-plated bronze
- Actuating button: thermoplastic acetal
- Moving blade: silver-plated beryllium copper
- Spring: copper coated stainless steel
- Auxiliary actuator and roller: stainless steel
- Contacts: gold cross point • Recommended #2-56 round head screw



Part No.	Product No.	Contact Form	Lever Type	Terminals	1	10	100
483727	DA3CB1RB	SPDT	Standard ratio roller, 0.21"L	Quick conn. 0.110"	\$4.35	\$4.20	\$4.05
483760	DA3CD1RB	SPDT	Standard ratio roller, 0.21"L	Short solder eyelet 0.110"	4.89	4.00	3.87

## DG Series Subminiature Snap-Action Switch

- Contact form: SPDT
- Lever type: roller 0.075"L
- Small dimensions, just 0.504" x 0.228" x 0.256"
- Electrical life at rated load: 6,000 operations per UL
- Mechanical life: 1 x 10<sup>6</sup> operations
- Temp. rating: -25°C to +85°C
- Flammability rating: UL94V-0
- Base: PPHS (polyphenylene sulphide)
- Cover and actuator: PBT (polybutyleneterephthalate)
- Auxiliary actuator: stainless steel
- Terminals: silver-plated brass



Part No.	Product No.	Contact Rating	Contacts	Terminals	1	10	100
484607	DG13B3RA	3A @ 125VAC, 2A @ 30VDC	Silver alloy	PCB left side	\$2.95	\$2.78	\$2.64

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# Snap-Action, Pushwheel & Thumbwheel Switches

Color Code Legend			
New	Sale	Lower\$	QtySave

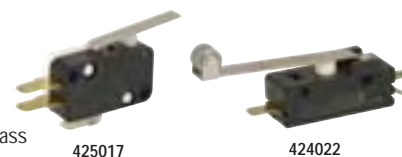


## E Series Snap-Action Switches

- Long life coil mechanism
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94HB
- Spring: stainless steel
- Case: general purpose phenolic
- Roller: sintered stainless steel

### Miniature Snap-Action

- Temperature rating: -40°C to +85°C
- Actuating button: thermoplastic acetal
- Common terminals: silver plated brass
- NO & NC terminals: brass
- Recommend #4-40 round head screw



Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Moving Blade	Auxiliary Actuator	Contacts	Terminal Type	1	10	100
425017	E23-50H	SPDT	Lever 1.40"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	\$2.87	\$2.57	\$2.31
455881	E34-10K	SPDT	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Screw terminal	5.03	4.73	4.49

### Single and Double Pole General Purpose Snap-Action

- Temperature rating: 105°C standard
- Actuating button: thermoplastic nylon
- Terminals: 0.250" quick connect
- Auxiliary actuators: cold-rolled steel (nickel plated)
- Recommended #6-32 round head screw

Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Common Terminal	NO/NC Terminal	Moving Blade	Contacts	1	10	100
424057	E13-01H	SPST NO	Lever 1.500"	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	\$3.89	\$2.88	\$2.59
424137	E13-50H	SPDT	Lever 1.500"	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	3.15	2.95	2.72
424022	E13-00K	SPDT	Roller 1.391"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	3.45	3.39	3.32

## 3P Series Miniature Pushwheel Switch

- Contact rating: carry – 1A continuous; switch – 0.4W max., 100mA max., 28VDC max.
- Operating voltage: 50mV to 28VDC
- Electrical life: 1,000,000 actuations
- Insulation resistance: 10<sup>9</sup>Ω min. (dry)
- Dielectric strength: 500V<sub>RMS</sub> min.
- Contact resistance: below 300mΩ typ. @ 2-4VDC, 100mA
- Rotor contacts: gold over nickel over copper alloy
- Stator contacts: hard gold over nickel over copper on epoxy fiberglass
- Pushwheel: polycarbonate
- Housing & pushbutton: polycarbonate (UL94V-0)



Part No.	Product No.	Terminals	Termination	1	10	50
569109	3P0210A02	BCD 1-2-4-8, snap-in front mount w/ dust lens	Extended PCB with solder pins	\$13.39	\$12.20	\$11.09

## 3 Series Thumbwheel Switches

- Contact rating: carry – 1A continuous; switch – 100mA max.
- Operating voltage: 50mV to 28VDC or 120VAC
- Electrical life: 100,000 actuations
- Dielectric strength: 500V<sub>RMS</sub> min.
- Contact resistance: below 100mΩ typical initial @ 2-4VDC @ 100mA
- Insulation resistance: 10<sup>9</sup>Ω min.
- Housing and thumbwheel: ABS plastic
- Rotor contacts: precious metal on copper alloy
- Stator contacts: hard gold over nickel over copper
- Typical applications: test & measurement equipments, industrial equipment, computer devices



Part No.	Product No.	Terminals	Termination	1	10	50
577854	301119000	Decimal, SP 10-pos., rear mnt.	Standard PCB	\$9.89	\$9.80	\$9.70
577942	307109000	BCH, 16-pos., snap-in fr. mnt.	Standard PCB	43.89	41.69	39.60



### Pushbutton Binary Coded Decimal (BCD) Switch

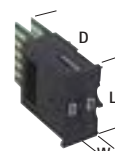
26789 (2 switches shown)

### Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26818

#### Pushbutton and Thumbwheel Switch Specifications:

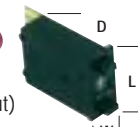
- Contact resistance: 100mΩ max.
- Break before make
- Switches snap together
- 1/16" maximum panel thickness
- Operating temperature: -40°C to +85°C
- Gold plated BE-CU alloy contacts
- Continuous load: 1 amp max.
- 0.15A @ 50VAC/28VDC
- Front snap-tab mounting w/ end plates



Part No.	Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing			
					1	10	50	100
26789	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$6.83	\$6.18	\$5.58	\$4.98
26761	MXEP2	Mounting end plates for 26789	1.2 x 0.2 x 1.1	—	1.15	1.04	.83	.62
26818	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.69	4.14	3.72	3.34
26771	MXEP3	Mounting end plates for 26818	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77

### Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"



Part No.	Cross Ref.	Description	1	10	100
136558	MX061	10-position ...	\$3.79	\$3.41	\$3.06

For additional C&K Switches visit  
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## Pushwheel Switches

- Contact resistance: 0.1Ω max.
- Insulating resistance: 10,000MΩ
- Dielectric strength: 500V
- Electrical rating: 0.1A/50V
- Max. non-switching current: 1A
- Mechanical cycle: 10,000,000 operations
- Housing material: PPO (noryl)
- Contacts: WE alloy

### PA Series

- Selector switches with very small dimensions for front-mounting
- Printed circuit board: glass filled epoxy, copper-plated gold over nickel
- Mounting: front mounting, snap-in end caps
- Terminals: gold-plated quick connect terminal or solder pins



Part No.	Product No.	Description	Pos.	1	10	50
577109	PAGA3100	Hexadecimal (0-9, A-F), short PCB	16	\$13.69	\$12.18	\$10.50
577117	PAGA3114	Hexadecimal (0-9, A-F), short PCB	16	12.65	11.22	10.15

### PB Series

- Selector switches with 6mm width for compact building of blocks with a larger number of modules
- Printed circuit board: copper-plated gold over nickel
- Mounting: front mounting, snap-in end caps
- Terminals: 0.6mm x 0.5mm solder pins with 2.54mm center spacing
- PCB flush with housing, with solder pins



Part No.	Product No.	Description	Pos.	1	10	50
577125	PBC1E015	BCD (0-9)	10	\$8.85	\$8.04	\$5.96

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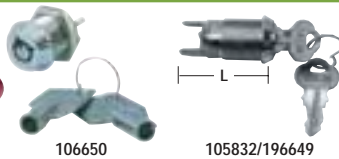
RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## JAMECO ValuePro SPST Round Keylock Switches

- Used in computer and other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106650 = 0.5"

196649: all keys are alike

Includes: Mounting nut



Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing			
						1	10	50	100
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$4.31	\$3.95	\$3.47	\$2.99
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.15	3.73	3.42	3.11
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.75	4.23	3.87	3.49



## Keylock Switch

- Contact rating: 2A @ 250VAC/4A @ 28VDC
- 2.1A @ 46VDC (96VAC) • SPST on-off
- Screw terminal • 2 key removal
- Lock type: 5 disk tumbler
- Mounting hole: 0.875"

Includes: Nut, screw, ring & 2 keys



Part No.	Product No.	1	10	50
621317	35-196	\$13.69	\$12.98	\$12.33

## Switch Grab Bags

18235: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches

135378: 1 lb. (approx. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches

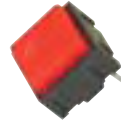


Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235	GB165	0.4	\$8.75	\$7.69
135378	GB165LB	1.0	18.95	16.95



## KS Series Single Pole Switch

- Typical applications: telecommunications, industrial, instrumentation
- Electrical life: 10,000 actuations • PC terminals
- Contact resistance: below 100mΩ initial @ 2-4VDC, 100mA
- Insulation resistance: 1,000MΩ min. • Dielectric strength: 1,000Vrms



Part No.	Product No.	Description	Contact Rating	1	10	100
583357	KS11R23CQD	Round depression cap, red	25mA @ 50VAC/VDC	\$1.25	\$1.20	\$1.16



## Pushbutton Switches

Quantity SAVE



Fig. 1



Fig. 2

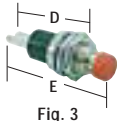


Fig. 3



Fig. 4

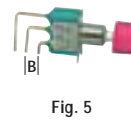


Fig. 5

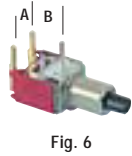


Fig. 6



Fig. 7

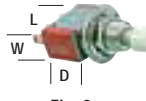


Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

Part No.	Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315432	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$1.13	\$1.05	\$0.90	\$0.83	\$0.78
315484	R13-23B-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315442	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315492	R13-23B-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315504	R13-23B-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.10	.99	.84	.67	.51
315475	R13-23A-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.10	.99	.84	.67	.51
315521	R13-23B-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.10	.99	.84	.67	.51
315598	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.17	1.07	.99	.88	.83
315619	R13-40B-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.59	1.43	1.22	.98	.74
315580	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.22	1.04	.83	.62
315601	R13-40B-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.32	1.19	1.01	.81	.61
26623	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.66	.60	.54	.42	.348
26649	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.65	.57	.479	.388	.296
315643	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.25	1.15	1.06	.95	.84
154879	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	1.99	1.89	1.79	1.75	1.69
71643	SWB210	6	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.63	2.39	2.14	1.92	1.67
202999	BB16	7	3	1/4"	SPDT on-(on)	.39 x .35 x .35	.18	.10	0.1A @ 28VAC	Solder right angle	White	1.18	1.06	.90	.72	.54
121305	CK8121	8	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28063	PB126	8	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
355451	J1881	9	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	White	1.19	1.07	.91	.73	.57
355469	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	Red	1.09	.98	.83	.74	.66
174414	R13-510A	10	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69

## Other Manufacturers

154878	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
200774	TP12SHBAQE	7	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	4.35	3.65	2.75	1.99
22200	J1881	11	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218	J1882	11	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.05	.91	.81	.73	.64
307889	DS133	12	2	29/64"	SPST off-(on)	1.03 x .56 x .46	—	—	10A @ 125VAC	Solder Lugs	Black	4.15	3.73	3.17	2.54	1.90

\* Lead wires † Alt = alternate action

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

JAMECO ValuePro

## Miniature Pushbutton Switches

Quantity SAVE

• 6A@125V or 3A@250V

• Epoxy sealed

• Material: Alkyd base (UL94V-0), stainless steel cover

cUL us

315379



Part No.	Cross Ref. No.	Pins	Mounting Hole Dia.	Type	Dimensions (D" x E")	Lead Spacing		Contact Rating (A @ VAC)	Terminal Type	Button Color	Pricing				
						A"	B"				1	10	100	500	1000
315395	PA101A1-B/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	\$2.45	\$2.21	\$1.87	\$1.50	\$1.12
315388	PA101A1-R/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.79	2.53	2.28	2.05	1.93
315379	PA102A1-B/BL	3	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
Other Manufacturers															
447072	TP32Y0030050†	3	1/4"	SPST on-on	0.7 x 0.8	.11	—	0.4 @ 20	Solder	Black	\$2.59	\$2.33	\$1.98	\$1.58	\$1.19

† Sub miniature



## Standard Pushbutton Switches

• Typical applications: computer equipment & peripherals, telecommunications, networking equipment, instrumentation, detection, medical & test equipment

• Mounting hardware included

Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	Pricing		
									1	10	100
621923	35-3429	1	0.50"	SPST NC on-(off)	15A @ 125VAC	Screw	Chrome metal	0.415"	\$4.89	\$4.43	\$4.07
621958	35-3454	2	0.50"	SPST NC on-off	10A @ 125VAC	6" lead wires	Black plastic	0.41"	4.69	4.24	4.03
621966	35-3457	3	0.50"	SPST NO (on)-off	6A @ 125VAC	Screw	Black plastic	0.212"	2.69	2.47	2.26
621974	35-3458	3	0.50"	SPST NC (off)-off	3A @ 120VAC	Screw	Red plastic	0.212"	2.89	2.65	2.42
622002	35-3484	4	0.641"	SPST NO off-(on)	25A @ 6VDC	Screw	Black chrome	0.49"	10.09	9.22	9.07
616850	35-420	5	0.50"	SPST NO off-(on)	3A @ 250VAC	Solder eyelet	Red plastic	0.354"	1.25	1.13	1.03
616868	35-421	6	0.50"	SPST NO off-(on)	3A @ 250VAC	Solder eyelet	Red plastic	0.244"	1.65	1.49	1.43



## Mini Pushbutton Switches

• Typical applications: computer equipment & peripherals, telecommunications, networking equipment, instrumentation, detection, medical & test equipment

• Mounting hardware included

Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	Pricing		
									1	10	100
621982	35-3460	7	0.375"	SPST on-off	6A @ 125VAC	6" lead wires	Brass canopy	0.36"	\$2.89	\$2.65	\$2.42
621991	35-3471	8	0.50"	SPST NC on-(off)	2A @ 120VAC	Screw	White round	0.465"	2.75	2.53	2.32
616753	35-405	9	0.250"	DPDT on-on	3A @ 125VAC	Solder eyelet	Black round	0.315"	6.35	5.57	4.83
616788	35-409	10	0.343"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black round	0.315"	3.75	3.36	3.02
616809	35-411	11	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black round	0.157"	1.19	1.05	.93
616825	35-413	12	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black rectangle	0.157"	3.25	2.79	2.43
617115	35-491	13	—	DPDT (on)-(on)	0.5A @ 100VAC	PCB solder	Black button	0.406"	3.55	3.41	3.39
617705	35-852	14	0.375	SPST on-off	6 @ 125VAC	6" lead wires	Black canopy	0.344"	2.55	2.40	2.27



## Lighted Pushbutton Switch

• Typical applications: instrumentation, networking equipment, telecommunications, detection, test equipment

Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	Pricing		
									1	10	100
617094	35-484	15	1.1" x 0.88"	SPST on-off	10A @ 125VAC	0.250" QC	Green square	0.36"	\$7.59	\$6.94	\$6.34



## Pushbutton Switches

IP and AV Series Panel Mount Pushbutton Switches

171758 /171766: IP Series

• Initial contact resistance: 50mΩ max.

• Insulation resistance: 1GΩ min. @ 500VDC

• Mounting hole: 1/2"Dia.

• Dielectric strength: 1500V<sub>RMS</sub> min.

• Mechanical life: 1,000,000 cycles min.

171774: AV Series

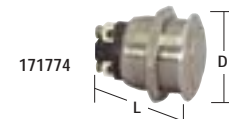
• Initial contact resistance: 10mΩ max.

• Insulation resistance: 1000MΩ min.

• Mounting hole: 3/4"Dia.

• Dielectric strength: 1000V<sub>RMS</sub> min.

Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions			Lead Spacing	Contact Rating	Terminal Type	Pricing			
				L	W	D				1	10	100	250
171758	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.89	\$9.82	\$8.87	\$7.87
171766	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	12.55	11.38	10.24	9.23



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## Pushbutton Switches

- 2-pin • Lead type: solder terminal
- Contact rating: **164566/164639**: 0.5A @ 125VAC; **164582/164671**: 1A @ 125VAC; **106112**: 3A @ 110VAC

### Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164494	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486	DS463R 	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.39	2.30	2.18	2.07
164523	DS466R 	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.95	1.87	1.81	1.74
164558	DS471R 	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	2.65	2.52	2.41	2.30

### Standard Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164566	MS402R 	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	\$1.15	\$1.14	\$1.10	\$1.06
164582	DS016B 	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.59	1.54	1.48	1.42
164639	MS3120R 	6	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
164671	NS801MOB 	7	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	2.45	2.05	1.94	1.77
106112	DS412R 	8	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98



\* Solder lugs



## 8020 Series Snap-Acting Momentary Pushbutton Switches

- Positive tactile feel
- Typical applications: instrumentation, computer peripherals, telecommunications equipment
- Contact form: SPDT ON-MOM
- Electrical life: 60,000 make and break cycles @ full load
- Cap and frame: nylon, black
- Contact resistance: below 50mΩ typical initial @ 2-4VDC, 100mA
- Switch support: brass or steel, tin plated
- Common contact & all terminals: copper alloy with gold plate over nickel
- N.O. & N.C. contacts: 8121 series – coin silver with gold plate over nickel; 8125 series – copper alloy with gold plate over nickel
- Plunger: glass filled nylon or glass filled polyester (UL94V-0)
- Plunger height: 0.218"
- Length: 1.03"
- Dielectric strength: 1,000Vrms
- Terminal seal: epoxy
- Insulation resistance: 1,000MΩ min.
- Case: glass filled nylon 6/6 or diallyl phthalate (UL94V-0)
- Housing: stainless steel

Includes: Nut, locking ring & lockwasher

Part No.	Product No.	Contact Rating	Contact Plating	Bushing	Terminal	Description	1	10	100	500
575744	8121J83ZGE22	1A @ 120VAC/28VDC	Gold over silver	—	Solder lug	Snap-in w/ frame & flush cap	\$8.15	\$8.05	\$7.98	\$7.60
576000	8121SHZGE 	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger	7.69	7.65	7.59	7.55
575998	8125SHZBE 	0.4VA @ 20VAC/VDC	Gold	0.250"H, flat	Solder lug	Standard plunger	5.25	5.20	5.17	5.13

### UL/CSA Versions

596799	U811SH2GE	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger, SPDT ON-MOM	\$11.10	\$9.04	\$7.16	\$5.37
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## 8060 Series Alternate Action and Momentary Pushbutton Switch

- Long travel
- Typical applications: instrumentation, computers & peripherals, telecommunications & networking equipment
- Length: 1.185"
- Contact rating: 6A @ 120VAC/28VDC; 3A @ 250VAC
- Electrical life: 50,000 make & break cycles @ full load
- Contact resistance: below 20mΩ typical initial @ 2.4VDC, 100mA
- Insulation resistance: 1,000MΩ min.
- Case: glass filled nylon 6/6 or diallyl phthalate (UL94V-0)
- Plunger: glass filled nylon or glass filled polyester 0.710"H w/ 0.375"Dia. cap
- Bushing: brass or zinc, nickel plated 0.3"H flat, high torque
- Cap and frame: nylon, black
- Switch support: brass or steel, tin plated
- Long life contact design
- Terminals: solder lug
- Dielectric strength: 1,000Vrms
- Diallyl phthalate (UL94V-0)
- Plunger: PBT polyester, black
- Terminal seal: epoxy

Includes: Nut, locking ring, and lockwasher

Part No.	Product No.	Contact Plating	1	10	100
575795	8161SHZQE2	Silver	\$5.79	\$5.61	\$5.44



## Caps for .122" Dia. Switch Plunger

.310"/.375"Dia. Pushbutton Caps  
for 8020/8060/E010/E020/  
KM11/L Series



Part No.	Product No.	Description	Color	1	10	100
578540	801801000	.310"Dia. cap	White	\$.71	\$.68	\$.61
578451	752703000	.375"Dia. cap	Red	.53	.504	.475



## 8700 Series Overtravel Pushbutton Switch

- Typical applications: telecommunications, high-end instrumentation, medical & test equipment, detection
- Contact form: SPST OFF-MOM
- Length: 1.65"
- Continuous plunger seal
- Electrical life: 100,000 actuations @ full load
- Contact resistance: below 30mΩ typical initial @ 2-4VDC, 100mA
- Insulation resistance: 10,000Ω min.
- Case: diallyl phthalate (UL94V-0)
- Bushing: brass, nickel plated
- Plunger height: 0.390"
- Heavy duty brass plunger
- Dielectric strength: 1,000Vrms
- Plunger: PBT polyester, black
- Terminal seal: epoxy

Includes: Nut and lockwasher

Part No.	Product No.	Contact Rating	Terminals	1	10	100
576940	8732S1HZQE	0.4VA@20VAC/VDC	Solder lug (gold)	\$5.69	\$5.65	\$5.59

## Switchcraft® Button-Switch® & Cord-Switch®

- SPST-on (on)
- Rating: 250mA, 30W max., AC, non-inductive load
- Mounting hole size: .469"
- Compatible with P/N 297502
- Panel thickness: .297" max.

### 297300: Button-Switch®

- Maximum cable side diameter: .375"
- Plastic insulation

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Description	1	10	25
297300	913 	Button-switch	\$2.89	\$2.65	\$2.54
297502	ED903 	Cord-switch	10.95	10.64	9.95





Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

Part No.	Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Lead Space		Dimensions (L"xW"xD")	Pricing		
											A"	B"		1	10	100
316451	R13-243A-02	1	2	SPST on-off	8 @ 125	.78"L x .28"W	Panel mnt	.187" quick conn.	Black	Rectangle	0.35	—	.83 x .37 x .85	\$1.22	\$1.04	\$ .97
316478	R13-243F-02	1	2	SPST (on)-off	8 @ 125	.78"L x .28"W	Panel mnt	.187" quick conn.	Black	Rectangle	0.35	—	.83 x .37 x .85	1.29	1.05	.79
196154	R30NSA	2	2	SPST on-off	15 @ 125	1.07"L x .43"W	Panel mnt	.250" quick conn.	Solid black	Rectangle	0.45	—	1.07 x .42 x .77	1.85	1.55	1.17
316014	R13-66A-B-02	3	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Black top	Rectangle	0.31	—	.83 x .59 x .47	.99	.86	.56
316022	R13-66A-R-02	4	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red top	Rectangle	0.31	—	.83 x .59 x .47	.99	.86	.56
316128	R13-73B-R-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.25	1.06	.79
316048	R13-66B-G-02	6	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Green illum.	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.67
316072	R13-66D-02	6	3	SPDT on-off-on	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Black (I-O-I)	Rectangle	0.31	0.31	.83 x .59 x .47	.99	.84	.63
316110	R13-73A2-B-02	7	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Solid black (I-O)	Rectangle	0.20	0.34	.83 x .59 x .87	1.69	1.58	1.42
316153	R13-73C-R-02	7	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.05	1.88	1.69
316161	R13-73C-Y-02	7	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Yellow illum.	Rectangle	0.20	0.34	.83 x .59 x .87	1.32	1.12	.84
316179	R13-73C-G-02	7	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Green illum.	Rectangle	0.20	0.34	.83 x .59 x .87	1.32	1.12	.84



## Rocker Switches



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

### Standard Appliance Rocker Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
621561	35-3030	1	SPST on-off	16 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	\$2.19	\$1.92	\$1.79
622184	35-3600	2	SPST on-off	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	3.89	3.51	3.16
622281	35-3695	2	DPDT (on)-off-(on)	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	7.59	7.02	6.52
617300	35-654	3	DPST on-off	20 @ 125	1.0" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	3.55	2.99	2.68
617473	35-695	2	SPDT (on)-off-(on)	16 @ 125	0.55" x 1.12"	Panel mount	0.250" quick connect	Black	Rectangle	4.25	3.52	3.30
617457	35-693	4	SPST on-off	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	2.25	2.01	1.81
617465	35-694	4	SPDT on-off-on	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	2.39	2.17	1.95

### Lighted Mini Rocker Switch

617289	35-646	5	DPST on-off	10 @ 125	0.755" x 0.508"	Panel mount	Solder eyelet	Lighted red LED	Rectangle	\$6.05	\$5.28	\$4.76
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### Miniature Rocker Switches

617166	35-606	6	DPDT on-on	8 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	\$2.19	\$1.78	\$1.44
617174	35-607	6	SPST on-off	11 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	1.79	1.44	1.24
617246	35-642	7	SPST on-off	10 @ 125	0.508" x 0.755"	Panel mount	0.250" quick conn.	Black w/ white indicating	Rectangle	3.45	2.89	2.59
617254	35-643	8	DPST on-off	16 @ 125	0.483" x 1.021"	Panel mount	0.250" quick conn.	Black w/ white indicating	Rectangle	5.15	4.41	4.02
617369	35-676	9	DPDT on-off-on	8 @ 125	0.625" x 0.523"	Panel mount	Solder lug	Red	Rectangle	5.29	4.57	3.96

### Lighted Appliance Rocker Switches

622408	35-3790	10	SPST	15 @ 125	0.55" x 1.125"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	\$3.39	\$2.98	\$2.76
617326	35-656	11	SPST	15 @ 125	1.45" x 0.83"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	5.29	4.67	4.20
617481	35-696	12	SPST	12 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	125V neon red	Rectangle	2.99	2.72	2.58
617422	35-688	13	SPST	15 @ 125	0.453" x 1.10"	Panel mount	0.250" quick conn.	105/120V neon red	Rectangle	3.99	3.23	2.73



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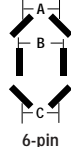
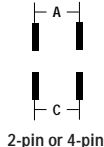
- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

**Includes:** Mounting hardware and on/off plate

**A Jameco EXCLUSIVE**

## Standard Toggle Switches

**Quantity SAVE**



Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76241	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.79	\$1.61	\$1.37	\$1.10	\$ .82
76232	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	2.22	2.00	1.86	1.67	1.50
317833	R13-25A2-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.99	1.75	1.39	1.22	1.13
317809	R13-25A1-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.55	1.42	1.27	1.12	.94
317825	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.99	1.75	1.38	1.27	1.10
318002	R13-28A-01	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.13
318019	R13-28A-05	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.99	1.45	1.39	1.25	1.13
318027	R13-28A-06	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.25	1.99	1.55	1.39	1.25
317892	R13-25C1-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.69	1.52	1.46
317913	R13-25C2-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.51	1.49
317884	R13-25C1-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.85	2.55	2.00	1.79	1.72
317905	R13-25C2-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.51	1.49
318086	R13-28C-01	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.75	2.48	2.11	1.69	1.27
318094	R13-28C-05	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.75	2.48	2.11	1.69	1.27
318107	R13-28C-06	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.75
317930	R13-25D1-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.45	2.15	1.69	1.55	1.45
317956	R13-25D2-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.55	1.45
318123	R13-28D-01	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.30	2.94	2.50	2.00	1.67
318131	R13-28D-05	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.47
318141	R13-28D-06	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060	JKN32	1	4	SPDT on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.38	1.26	1.14	1.02	.78
76260	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.75
317850	R13-25B1-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
318043	R13-28B-01	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051	R13-28B-05	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09
318060	R13-28B-06	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	4.59	4.15	3.19	2.89	2.75
317972	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.38	2.87	2.30	1.73

### Other Manufacturers — Great Deals

76259	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	\$1.59	\$1.43	\$1.22	\$ .98	\$ .74
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**Jameco ValuePro**

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

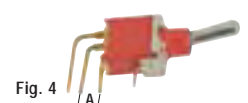
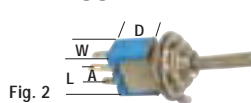
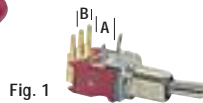
**Includes:** Mounting hardware

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## Subminiature Toggle Switches

**Quantity SAVE**

**NEW**



Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing		Contact Rating	Lead Type	Lever Type	Pricing				
						A"	B"				1	10	100	500	1000
106068	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$2.39	\$2.20	\$1.91	\$1.73	\$1.59
72161	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.09	1.07	1.04	.99	.84
75969	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.64	.48
75977	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.45	1.17	.94	.72	.61

### Other Manufacturers — Great Deals

1585493	FT012D1AVBE	4	3	SPDT on-on	.32 x .20 x .18	.10	—	20mA @ 20VDC/VAC	PC right angle	Round	\$1.49	\$1.39	\$1.25	\$1.10	\$ .95
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## Miniature Toggle Switches

**Quantity SAVE**

• Mounting hole diameter: 1/4"



Fig. 1

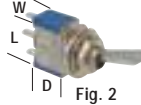


Fig. 2

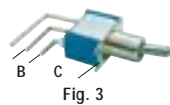


Fig. 3

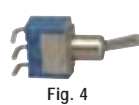


Fig. 4



Fig. 5

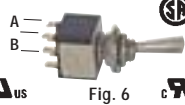


Fig. 6



Fig. 7

Includes: Mounting hardware

Part No.	Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76523	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.38	\$1.24	\$1.12	\$0.90	\$0.78
21936	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.25	1.11	1.00	.81	.70
21910	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.71
22833	LFH123	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.38	1.26	1.14	1.02	.90
75854	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.40	1.25	1.13	.83
75889	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
26331	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.72
71597	SWM148	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.29	1.19	.99	.79	.59
75871	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841	LFH221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979	JMT223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859	LFH223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.55	1.43	1.26	1.14	.89
75900	SWM133	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.79	1.61	1.37	1.10	.82
21952	JMT221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.37	1.17	.93	.70
75951	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
26367	MPC223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.55	1.40	1.25	1.07	.90

### Other Manufacturers

1585506	7201LYTIME	1	6	DPDT on-on	.50 x .45 x .35	—	.135	—	5 @ 120 & 2 @ 250	Solder lugs	Round	\$2.95	\$2.65	\$2.25	\$1.95	\$1.59
105814	SWA208	5	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.59	1.45	1.29	1.03	.77
202964	WI24	7	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.59	.79	.68	.54	.41

Blue Part No. = Limited Quantity Available



## Toggle Switches

### Heavy-Duty Toggle Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Lead Type	Mounting Hole	Lever Type	Pricing		
								1	10	100
620787	35-078	1	SPST on-off	15 @ 125	Solder	0.500"	Bat (metal)	\$3.19	\$2.99	\$2.90
620963	35-130	2	SPDT on-on	20 @ 125	Screw	0.500"	Bat (metal)	3.25	3.04	2.84
621026	35-140	3	3PDT on-off-on	17 @ 125	Screw	0.500"	Bat (metal)	12.55	11.76	10.99
621034	35-141	3	3PDT on-on	17 @ 125	Screw	0.500"	Bat (metal)	12.55	11.76	10.99
621122	35-149	1	DPDT on-off-on	20 @ 125	Solder	0.500"	Bat (metal)	5.75	5.23	4.73
621131	35-150	2	DPDT (on)-off-(on)	20 @ 125	Screw	0.500"	Bat (metal)	6.25	5.85	5.47
621181	35-155	2	SPDT (on)-off-(on)	20 @ 125	Screw	0.500"	Bat (metal)	4.29	4.03	3.78
621261	35-185	4	DPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (metal)	5.15	4.80	4.47
621499	35-3005	4	SPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	2.65	2.47	2.30
621536	35-3015	4	SPDT on-off-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	3.29	3.08	2.88
621544	35-3020	4	DPDT on-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.45	4.16	4.08
621552	35-3025	4	DPDT on-off-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.45	4.17	3.90
621587	35-3045	4	DPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.75	4.45	4.16
621608	35-3055	4	SPST off-(on)	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.55	4.25	3.97
621616	35-3060	2	DPST on-off	20 @ 125	Screw	0.500"	Bat (brass)	4.45	4.16	3.89
621641	35-3075	5	DPST on-off	20 @ 125	Screw	0.500"	Bat (brass)	9.59	8.90	8.28

### Medium-Duty Toggle Switches

620816	35-090	6	SPST on-off	16 @ 125	0.250" quick conn.	0.500"	Paddle (red)	\$5.29	\$4.96	\$4.64
620971	35-132	7	DPDT on-on	3 @ 125	Solder	0.500"	Bat (metal)	1.95	1.81	1.68
621229	35-178	8	SPST on-off	20 @ 125	0.250" quick conn.	0.500"	Paddle (plastic)	3.35	3.21	3.08
617721	35-854	9	SPST on-off	6 @ 125	Lead wires	0.500"	Bat (plastic)	3.49	3.22	2.97
621595	35-3050	10	SPST on-off	10 @ 125	Lead wires	0.500"	Paddle (brass)	3.25	3.12	3.01
621683	35-3127	11	DPDT (on)-off-(on)	15 @ 125	0.250" quick conn.	0.500"	Bat (metal)	10.09	9.39	8.76
621763	35-3160	12	SPST on-off	20 @ 125	Screw	0.500"	Paddle (nylon)	3.45	3.21	2.99

### Miniature Toggle Switches

620517	35-003	13	SPDT on-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome)	\$2.75	\$2.57	\$2.40
620525	35-004	13	SPDT on-on	5 @ 125	Solder	0.250"	Bat (brass chrome)	2.35	2.20	2.06
620533	35-005	13	SPDT on-off-on	5 @ 125	Solder	0.250"	Bat (brass chrome)	2.75	2.57	2.40
620550	35-007	13	SPDT on-off-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome)	2.75	2.57	2.40
620568	35-008	13	SPDT (on)-off-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome)	2.65	2.47	2.30
620576	35-009	14	DPDT on-on-on	5 @ 125	Solder	0.250"	Bat (brass chrome)	4.25	3.98	3.72



Fig. 1

Fig. 2

Fig. 3



Fig. 4

Fig. 5

Fig. 6



Fig. 7

Fig. 8

Fig. 9



Fig. 10

Fig. 11

Fig. 12



Fig. 13

Fig. 14

**JAMECO ValuePro**

## Tactile Switches

**A Jameco EXCLUSIVE**

**Quantity SAVE**



Fig. 1

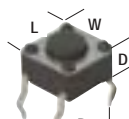


Fig. 2



Fig. 3



Fig. 4

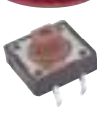


Fig. 5



Fig. 6



Fig. 7

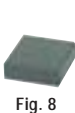


Fig. 8



Fig. 9

- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ
- Lead type: PC

Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A"	B"			1	10	100	250
122973	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$ .26	\$ .23	\$ .19	\$ .17
119010	KTIIBICM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.26	.23	.21	.19
199728	EVQ11A04M	6	2	.24	.24	.14	.30	.20	—	20 @ 15	White	.30	.221	.196	.187
137190	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.15
155249	KRS-3550-BK	4	2	.24	.14	.15	—	.27	—	50 @ 12	Black	.22	.20	.16	.15
155380	KRS-1273B	5	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

♦ See switch caps below

### Tactile Switch Caps ♦

10 piece minimum

Part No.	Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389	KRS-CAP-A	8	Square	.47"L x .47"W x .16"H	Plastic	P/N 155380	\$ .15	\$ .11	\$ .10
155409	KRS-CAP-B	9	Round	.50"Dia. x .25"H	Plastic	P/N 155380	.16	.14	.12

### Other Manufacturers — Great Deals

\* 10 piece minimum

Part No.	Cross Ref. No. *	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A"	B"			1	10	100	250
199726	EVQ11A04M	6	2	.24	.24	.14	.30	.20	—	20 @ 15	White	\$ .33	\$ .239	\$ .212	\$ .156
454491	DST21N	1	4	.47	.47	.14	.03	.19	.47	50 @ 12	Brown	.28	.252	.228	.204
454504	DTSM-61R	2	4	.24	.24	.15	.03	.19	.32	50 @ 12	Red	.23	.21	.19	.17
454512	DTSM-61K	2	4	.24	.24	.15	.03	.19	.32	50 @ 12	Black	.23	.207	.166	.125
202956	KSM06330	7	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	* .102	.092	.083	

\* Manufacturer may vary

1 454504/454512: SMD



## Specialty Switches



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

### Pull Chain Switches • Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	Product No.	Fig.	Contact Form	Actuator	Terminal Type	1	10	50
617764	35-864	1	SPST on-off	3 1/2" pull chain	6" wires	\$2.75	\$2.52	\$2.31

### Magnetic Proximity • Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC

617502	35-750	2	SPST NO w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	\$3.35	\$3.16	\$3.08
617529	35-752	3	SPDT NO/NC	Use magnet	Leaded SD	4.15	3.97	3.78
617545	35-756	2	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	7.05	6.56	6.10

### Knife Switches • Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

617490	35-730	4	DPDT on-off-on	Plastic handle	Screw terminal	\$4.09	\$3.99	\$3.91
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### Proximity Magnets • Current rating: 0.3A @ 30VAC/VDC

Part No.	Product No.	Fig.	Contact Form	Terminal Type	1	10	100
617537	35-754	5	SPST NO	Side wire leads, 1" gap, subminiature surface mount	\$8.39	\$7.67	\$7.01
617561	35-762	—	SPST NO	Wire leads, 1/4" gap, recessed magnet, panel mount 3.8"	6.49	5.91	5.40

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## Inline Cord Switch

- Contact form: SPST on-off
- Contact rating: 6A @ 20VDC
- Terminal: solder
- Black plastic body



Part No.	Product No.	1	10	100
621270	35-1851	\$4.75	\$4.56	\$4.38

**OMRON**

## B3F Series Miniature Tactile Key Switch

- Low profile and easy mounting
- Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: high-force 260g
- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Dimensions: 4.3 mm x 6.5 mm



Part No.	Type	1	25	50	100
162886	B3F-1000	\$ .45	\$ .40	\$ .36	\$ .33



## Tactile Switches

- Contact rating: 50mA @ 12VDC
- Contact form: SPST (on)-off
- PC terminal
- Actuator: P/N 621077 – low profile gray  
P/N 621085 – low profile black



Part No.	Product No.	Body Size	1	10	100
621077	35-1451	12mm	\$ .99	\$ .92	\$ .86
621085	35-1452	6mm	.89	.82	.78

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST



- 171871: 164081
- 500mA @ 100VDC
- Size: 0.53"L x 0.1"Dia.

- 164081: 1A @ 250VAC; 1A @ 50VDC
- Size: 1.43"L x 0.2"Dia.

Blue Part No. = Limited Quantity Available

**Quantity SAVE**

Part No.	Cross Ref. No.	1	10	100	1000
171871	MKA14103	\$ .79	\$ .64	\$ .46	\$ .41
164081	MRS1	.62	.53	.38	.285

## PCB Plunger Switch

### Use in Place of Shorting Block

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L



• 10 piece minimum

**Quantity SAVE**

Part No.	Description	10	100	1000
172700	Plunger switch	\$ .10	\$ .085	\$ .064

## Switch Assortment Kit

### Includes:

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 207 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26331, 26315, 21979, 21952, 26367, 26358), pg 188
- 10 ea. slide switches (109171), pg 190
- 10 ea. pushbutton switches (26623, 26649), pg 183
- 10 ea. DIP switches (38818, 38843), pg 192
- 10 ea. tactile switches (153251), above left



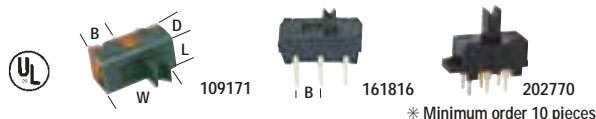
Part No.	Description	Wt. (lbs.)	1	10
85059	150 pcs. switch kit	5.0	\$118.74	\$106.74

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## Slide Switches

- Two mounting flanges • Top actuation • Nylon actuator • Phenolic insulated
- 6/6 nylon plastic housing



Part No.	Pins	Type	Description	Housing Material	Dimensions			Lead Spacing		Contact Rating	Lead Length	Actuator Height	Pricing			
					L"	W"	D"	A"	B"				1	10	100	250
109171	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	\$.31	\$.26	\$.23	\$.19
161816	6	DPDT on-on	PC mount	Plastic	.38	.14	.13	.13	.11	0.1A @ 20VDC	.11"	.08"	.62	.52	.41	.307

### Other Manufacturers — Great Deals

NEW

202770	6	SPDT on-on	PC mount	Plastic	.35	.70	.30	.17	.20	0.1A @ 30VDC	.16"	.32"	*	\$.095	\$.087	\$.079
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† Plastic — flanges

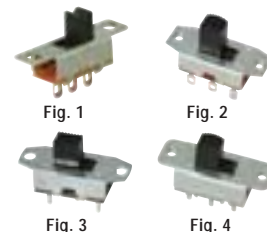
Ⓢ Blue Part No. = Limited Quantity Available



## Slide Switches

- Panel mount • Black plastic actuator

Part No.	Product No.	Fig.	Contact Form	Contact Rating	Terminal Type	1	10	100
621325	35-202	1	SPDT on-on	0.3A @ 30VAC	Solder lug	\$1.35	\$1.29	\$1.23
621333	35-204	2	DPDT on-on	0.3A @ 30VAC	Solder lug	1.35	1.24	1.13
621341	35-201	3	SPDT on-on	6A @ 125VAC	PCB lug	1.59	1.51	1.44
621472	35-222	4	DPDT on-on	6A @ 125VAC; 3A @ 250VAC	PCB lug	1.39	1.28	1.18
621481	35-242	2	DPDT on-on	11A @ 125VAC	Solder lug	1.65	1.56	1.48



JAMECO ValuePro

## Rotary Switches

- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Lug size: 0.07" • Layers: 1
- Mounting hole diameter: 3/8"
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565 – plastic casing)
- Make before break • Solder lugs • Panel mount

Includes: Washer and nut

Part No.	Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.)	1	10	50
101532	RS0261	1	12	0.46 x 0.25	\$1.29	\$1.10	\$.82
101574	RS022	2	6	0.46 x 0.25	1.35	1.15	.86
101565	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101558	RS024	4	3	0.46 x 0.25	1.75	1.49	1.38



## Rotary Switches

### Solder Eyelet Style

- Current: 0.3A @ 125VAC
- Actuator: 1/4" metal shaft
- Mounting hole dia.: 0.375"



Part No.	Product No.	Poles	Position	Mounting Style	1	10	100
622336	35-375	2	6	Shorting	\$3.85	\$3.55	\$3.28
622352	35-376	1	12	Shorting	2.89	2.66	2.48
622379	35-377	2	5	Non-shorting	3.85	3.55	3.28
622387	35-378	3	3	Non-shorting	3.85	3.55	3.28
622395	35-379	3	4	Shorting	2.89	2.66	2.48

### 6" Lead Wire Style

- Mounting: threaded bushing • Contact form: SPST on-off

Part No.	Product No.	Current (A@125/250VAC)	Actuator	Mounting Hole (Dia.)	Pricing		
					1	10	100
617730	35-855	6/3	Brass knob	0.375"	\$3.05	\$2.49	\$2.02
617748	35-856	6/2	Black plastic	0.375"	2.95	2.47	2.14



## CD Series 8mm DIP Coded Rotary Switches

- Contact rating: 0.4W max. @ 20VAC or VDC max.
- Insulation resistance: 100MΩ min. @ 250VAC min.
- Cover and base, knob: glass filled nylon, (UL94V-0), internal o-ring seal standard
- Movable contacts and stationary contacts: copper alloy with gold plate over nickel plate
- Contact resistance: 50mΩ max. initial
- Dielectric strength: 250V<sub>RMS</sub> min.
- Actuator: LCP (UL94V-0), internal o-ring seal standard
- Terminals: copper alloy with tin-lead alloy over nickel plate

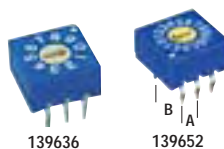
Part No.	Product No.	Function	Actuator	Termination	Mech/Electrical Life	1	10	100	1000
581394	CD16CMOSK	Hexadecimal compliment, 16-pos.	Flush, screwdriver slot	Surface mount	20,000 actuations	\$5.09	\$4.95	\$4.80	\$4.72
581301	CD16RK1CK	Hexadecimal, 16-pos.	Knob	PC thru-hole	20,000 actuations	6.05	5.70	5.55	5.45



## Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction • Terminals: PC pin leads
- Life: 10,000 cycles min. • Op. force: 500g-cm max.
- Max. switching load rating: 25mA @ 24VDC • Lead spacing: A = 0.1"; B = 0.3"
- Material: 94V-0 grade, UL approved fire retardant plastic

Part No.	Cross Ref. No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139636	ERD110RS (DRD10)	10	Top	BCD	.39 x .39 x .20	\$2.79	\$2.55	\$2.29	\$2.09
139652	ERD116RS	16	Top	Hex	.39 x .39 x .20	2.99	2.79	2.55	2.29



JAMECO ValuePro

## Tri-State DIP Switch

- Switch contacts: bused, tri-state
- 8 positions • Pre-tinned leads
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Two isolated buses
- Compatible socket, use P/N 37373, pg 162

Part No.	Cross Ref. No.	1	10	50	100
138992	ETA108E	\$1.99	\$1.79	\$1.59	\$1.39



## Rotary DIP Switch

- Fully sealed construction • 0.1" x 0.3" pin spacing (standard through hole)
- Contact and terminal material: copper alloy plated • Rotor and switch body: plastic (UL94V-0)
- Make and break current rating: 30mA @ 30VDC for 10,000 cycles

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
215992	HAB16	16	Top	Hex	.39 x .39 x .20	\$1.95	\$1.75	\$1.59	\$1.45



## DIP Switches

- Standard profile
- 2A @ 5VDC or 25mA @ 25VDC

Part No.	Product No.	Pos.	Length	1	10	50
617908	35-964	4	0.48" ..	\$1.75	\$1.59	\$1.44
617916	35-968	8	0.88" ....	2.35	2.16	1.94
617924	35-970	10	1.08" ....	2.75	2.49	2.24



Ⓢ RoHS compliant product

Ⓢ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Grayhill 76 Series Thru-Hole DIP Switches












- SPST rocker
- Spring ball contact
- Carrying current: 5A
- Dielectric strength: 500V<sub>RMS</sub>

**NEW**












For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)















### PSB – Piano DIP Style (UP is off), SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
696781	76PSB02ST 	2	0.280	\$1.39	\$1.29	\$1.17
696790	76PSB02T 	2	0.280	\$1.39 1.28	1.19	1.08
696802	76PSB04ST 	4	0.480	1.15	1.05	.97
696811	76PSB04T 	4	0.480	1.05	.99	.89
788109	76PSB05ST 	5	0.580	1.49	1.35	1.24
788117	76PSB06ST 	6	0.680	1.65	1.50	1.37
788125	76PSB06T 	6	0.680	1.98	1.77	1.62
469634	76PSB08	8	0.880	3.25	2.89	2.60
696829	76PSB08ST 	8	0.880	1.39	1.27	1.16
788133	76PSB08T 	8	0.880	1.39	1.25	1.14
469651	76PSB09	9	0.980	3.35	3.00	2.70
469677	76PSB10	10	1.080	2.45	2.33	2.17
788141	76PSB10ST 	10	1.080	1.85	1.66	1.52
788150	76PSB12T 	12	1.280	1.89	1.72	1.57


### RSB – Raised Rocker Style, Sealed, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788168	76RSB02ST 	2	0.280	\$1.15	\$1.05	\$ .96
788176	76RSB03ST 	3	0.380	1.35	1.22	1.11
696845	76RSB04ST 	4	0.480	1.35	1.24	1.13
788184	76RSB04T 	4	0.480	1.15	1.05	.96
788192	76RSB06T 	6	0.680	1.35	1.22	1.12
469845	76RSB08S	8	0.880	2.09	2.01	1.91
696853	76RSB08ST 	8	0.880	1.49	1.38	1.27
788205	76RSB08T 	8	0.880	1.29	1.18	1.08
469861	76RSB09S	9	0.980	2.25	2.05	1.86
788213	76RSB09ST 	9	0.980	1.59	1.41	1.30
788221	76RSB10ST 	10	1.080	1.55	1.40	1.29


### SB – Raised Rocker Style, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
696870	76SB02ST 	2	0.280	\$1.05	\$ .96	\$ .88
788230	76SB02T 	2	0.280	1.09	.99	.90
788248	76SB03T 	3	0.380	1.19	1.06	.97
696888	76SB04ST 	4	0.480	1.05	.96	.88
696896	76SB04T 	4	0.480	.89	.84	.76
788256	76SB05T 	5	0.580	1.25	1.12	1.03
696909	76SB06ST 	6	0.680	1.45	1.33	1.22
788264	76SB06T 	6	0.680	1.25	1.11	1.02
696917	76SB08ST 	8	0.880	1.45	1.32	1.19
696933	76SB08T 	8	0.880	1.39	1.29	1.19
788272	76SB09T 	9	0.980	1.49	1.35	1.24
788281	76SB10ST 	10	1.080	1.59	1.44	1.32
788299	76SB10T 	10	1.080	1.55	1.37	1.26
788301	76SB12ST 	12	1.280	1.65	1.50	1.37



### Raised Style, DPDT

Part No.	Product No.	Position	Length (in.)	1	10	100
788310	76SD01T 	1	0.380	\$4.75	\$4.32	\$3.96



### Toggle DIP Style, SPDT

Part No.	Product No.	Position	Length (in.)	1	10	100
788328	76STC04T 	4	0.780	\$5.15	\$4.64	\$4.25

### Military Qualified, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
696773	76MSB08S 	8	0.880	\$9.89	\$8.99	\$7.99
788088	76MSB10S 	10	1.080	5.59	5.06	4.64

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Grayhill 78 Series Thru-Hole DIP Switches
















- Spring ball contact
- Carrying current: 4A
- Dielectric strength: 500V<sub>RMS</sub>

**NEW**





For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)

### Raised Slides

Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
472489	78B04S	4	SPST	0.480	\$2.05	\$1.95	\$1.92
788336	78B04T 	4	SPST	0.480	1.25	1.11	1.02
696950	78B04ST 	4	SPST	0.480	.93	.86	.79
788344	78B05ST 	5	SPST	0.580	1.29	1.15	1.06
472542	78B06S	6	SPST	0.680	1.69	1.58	.97
788352	78B06ST 	6	SPST	0.680	1.19	1.08	.99
788361	78B07ST 	7	SPST	0.780	1.45	1.28	1.18
472593	78B08S	8	SPST	0.880	2.35	2.22	2.11
696968	78B08ST 	8	SPST	0.880	1.05	.96	.88
696984	78B08T 	8	SPST	0.880	1.19	1.11	1.02
788379	78B10T 	10	SPST	1.080	1.49	1.34	1.23
788387	78B12SRA 	12	SPST, right angle	1.280	3.29	2.97	2.72
788395	78B12SRAT 	12	SPST, right angle	1.280	3.35	3.03	2.77
788408	78F01T 	1	2PST	0.280	2.15	1.93	1.77
788416	78H01ST 	1	4PST	0.480	1.89	1.70	1.56
788424	78H02ST 	2	4PST	0.880	2.15	1.90	1.75
788432	78K01T 	1	DPDT (no common)	0.480	3.15	2.87	2.63
788441	78K02ST 	2	DPDT (no common)	0.880	3.69	3.34	3.07

### Recessed Slides

Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
696992	78RB04ST 	4	SPST	0.480	\$ .93	\$ .86	\$ .78
788459	78RB05ST 	5	SPST	0.580	1.39	1.24	1.13

## Grayhill 90B/90HB Series DIP Switches








### Machine Insertable MIDIP

- Tested for TO-116 equipment
- Carry current: 3A
- Dielectric strength: 500V<sub>RMS</sub>
- High-pressure reliable contacts

**NEW**



For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)













Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
788467	90B06ST 	6	Thru-hole	0.670	\$1.39	\$1.26	\$1.15
788475	90B10ST 	10	Thru-hole	1.070	1.99	1.79	1.64
697055	90B08ST 	8	Thru-hole	0.870	1.15	1.05	.97
788483	90HBW02PT 	2	SMT (gull wing)	0.270	1.25	1.11	1.02
788491	90HBW04PT 	4	SMT (gull wing)	0.470	1.29	1.18	1.08
788504	90HBW06PT 	6	SMT (gull wing)	0.670	1.45	1.28	1.17
875190	90HBW08PT 	8	SMT (gull wing)	0.870	1.65	1.47	1.34

## Grayhill 94H Series Rotary DIP Switches

- Carry current: 100mA @ 50VDC
- Dielectric strength: 250V<sub>RMS</sub>

For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)



Part No.	Cross Ref. No.	Pos.	Code Type	Description	NEW	Pricing		
						1	10	100
788512	94HAB08RAT 	8	Octal	Flush actuator, right angle, thru-hole		\$3.09	\$2.81	\$2.58
788521	94HAB08T 	8	Octal	Flush actuator, PC mount		3.05	2.75	2.52
697071	94HAB10RAT 	10	BCD	Flush actuator, right angle, thru-hole		3.05	2.91	2.85
697080	94HAB10T 	10	BCD	Flush actuator, thru-hole		2.69	2.61	2.47
788555	94HBB10T 	10	BCD	0.270" actuator, thru-hole		3.09	2.81	2.58
788571	94HCB10T 	10	BCD	0.170" actuator, thru-hole		3.09	2.81	2.58
473342	94HAB16	16	HEX	Flush actuator, PC mount		3.59	3.40	3.24
697098	94HAB16RAT 	16	HEX	Flush actuator, right angle, thru-hole		3.05	2.95	2.75
697101	94HAB16T 	16	HEX	Flush actuator, thru-hole		2.89	2.59	2.47
788539	94HAB16WT 	16	HEX	0.270" actuator, surface mount		3.09	2.81	2.58
788547	94HAC16T 	16	HEX	0.170" actuator, thru-hole		3.55	3.00	2.49
788563	94HBB16T 	16	HEX	0.270" actuator, PC mount		3.65	3.31	3.04
788580	94HFC16T 	16	HEX	Flush actuator, PC mount		3.65	3.31	3.04

For additional Grayhill Switches visit  
[www.Jameco.com](http://www.Jameco.com)

# DIP & Keypad Switches



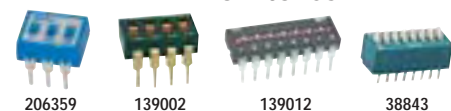
RoHS Compliant Product  
RoHS Also Available

Details  
on  
Page 1

Color Code Legend  
New Sale Lower\$ QtySave

JAMECO ValuePro

## DIP Switches



- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing
- Pre-tinned leads

Compatible Socket Chart, see page 169 for Sockets

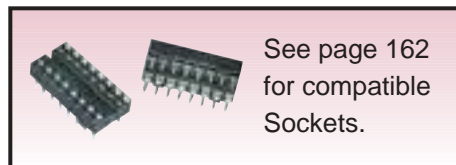
Switch	Socket	Switch	Socket	Switch	Socket
109059	112193	38827	37162	38798	38608
38820	51571	38843	37373	38801	39378
139003	51571	139012	37373	38834	37162
109057	112193	139002	51571	101856	38113
38818	51571	38826	37162	38797	38608
206359	51571	454547	—		

Part No.	Cross Ref. No.	Pos.	Pricing			
			1	10	100	1000
109059	206-2	2	\$.75	\$.68	\$.61	\$.55
38820	206-4	4	.65	.55	.49	.45
139003	206-4LP	4	.79	.70	.55	.44
38827	206-6	6	.99	.89	.79	.72
38843	206-8	8	1.07	.96	.87	.77
139012	206-8LP	8	.85	.76	.61	.47
38798	206-10	10	.95	.86	.68	.59
38801	206-12	12	1.23	1.16	1.09	.73

### Other Manufacturers — Great Deals

109057	206-2*	2	\$.83	\$.74	\$.68	\$.56
206359	206-3*	3	.82	.74	.59	.443
38818	206-4	4	.44	.432	.366	.30
139002	206-4LP*	4	.47	.441	.303	.262
38826	206-6*	6	.88	.83	.57	.48
454547	DMR06T†	6	.89	.80	.64	.48
38834	206-7*	7	.95	.86	.77	.62
101856	206-9*	9	.78	.73	.61	.46
38797	206-10*	10	.88	.83	.77	.481

\* Manufacturer may vary † SMT



## 16-Button Numeric Keypad

- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	1	10	100
169245	Numeric keypad	\$8.79	\$7.78	\$7.00

## 12-Button Telephone Keypad

- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
190561	Numeric keypad	\$9.65	\$8.20	\$6.15

## 16-Button Keypad Switch

- 1/2" button centers
- Flange mounted
- Top surface or sub-surface mounting
- Voltage breakdown: 250VAC
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Snap-dome contact provides positive feedback
- Rating @ 24VDC: 10mA resistive
- Life expectancy: 3,000,000 operations per button

Part No.	Product No.	1	10	100
302025	86BB2-006	\$21.49	\$19.95	\$17.95

## Modular Keypad Switch Series 82

- Unlighted for legend inserts
- Rating: 100mA @ 5VDC
- Contact resistance: 25mΩ or less
- Insulation resistance: 1000MΩ min.

Part No.	Description	1	10	100
472948	SPST 1 button	\$4.39	\$3.96	\$3.39

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Recommended connector: P/N 103191 header and P/N 100766 pin, pg 155
- Size (housing): 4.7"W x 1.7"H x 0.4"T

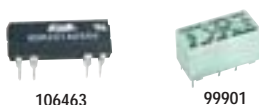
\* Minimum order 10 pieces

Part No.	Description	1	10	100
196171	2x8 matrix keypad	\$16.95	\$15.29	\$13.75
152063	4x4 matrix keypad	14.95	13.49	11.95
103191	Header housing (10-pin)	.42	.39	.36
100766	Header pin	.154	.121	

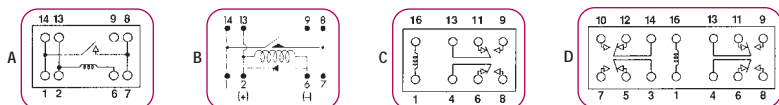
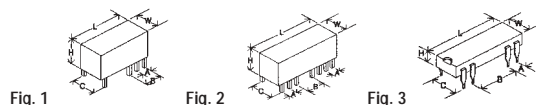
For Switches from AlcoSwitch visit [www.Jameco.com](http://www.Jameco.com).



- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications



Quantity SAVE



Part No.	Product No.	Manufacturer	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing			
													1	10	50	100
106463	201A05	Excel Cell Elect.	3A	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.78 x .25 x .20	.10 x .40 x .30	\$2.59	\$2.17	\$1.82	\$1.50
138431	2D1A05	Excel Cell Elect.	3B	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
106472	201A12	Excel Cell Elect.	3A	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	.78 x .25 x .20	.10 x .40 x .30	2.69	2.28	1.93	1.45
138449	2D1A1200	Excel Cell Elect.	3B	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	.77 x .30 x .22	.10 x .40 x .30	2.29	1.99	1.79	1.55
139977	RSB5S	Shin Mei	1C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99311	DS2Y-S-DC12V	Aromat (NAIS)	1C	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	.79 x .40 x .43	.20 x .40 x .30	2.59	2.38	2.12	1.80
99901	LX200D00	Clare	1C	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
136549	DS4E-M-DC5V	Aromat	2D	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95	4.45	3.34
176313	DS4E-M-DC12V	Aromat	2D	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	5.99	5.74	5.45	4.96

Committed to You

We're committed to providing you with the best service in the industry.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## OptoMOS® Solid State Relays

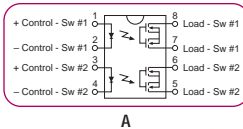


Fig. 1

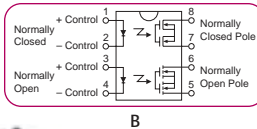


Fig. 2

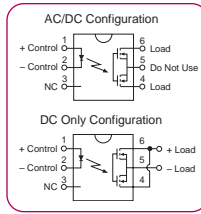


Fig. 3

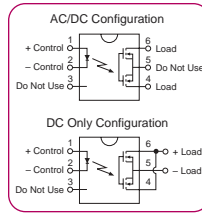


Fig. 4

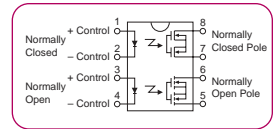


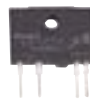
Fig. 5

For more Clare Relays visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Package	Description	Fig.	Load Voltage (V)	Current Handling (mA)	On-Resistance (ohms)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (µA)	Switching Speed (on/off) (ms)	Pricing		
												1	10	100
1582903	LAA110	DIP-8	Dual single pole, 1-Form-A	1A	350	120	35	3750	5	1	3/3	\$3.89	\$3.61	\$3.38
1582911	LAA110P	Flatpack-8	Dual single pole, 1-Form-A	2A	350	120	35	3750	5	1	3/3	3.95	3.65	3.42
1582920	LAA110S	SOIC-8	Dual single pole, 1-Form-A	3A	350	120	35	3750	5	1	3/3	3.95	3.65	3.42
1582938	LAA120	DIP-8	Dual pole, 2-Form-A	1A	250	170	20	3750	5	1	5/5	3.79	3.52	3.30
1582946	LAA125S	DIP-8	Dual pole, 2-Form-A	1A	350	170	16	3750	5	1	5/5	3.79	3.52	3.30
1582954	LAA127	DIP-8	Dual pole, 2-Form-A	1A	250	200	10	3750	5	1	5/5	5.65	5.22	4.89
1582962	LBA110	DIP-8	Dual pole, 1-Form-A & 1-Form-B	1B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582971	LBA110P	Flatpack-8	Dual pole, 1-Form-A & 1-Form-B	2B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582989	LBA110S	SOIC-8	Dual pole, 1-Form-A & 1-Form-B	3B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582997	LCA110	DIP-6	Single pole, 1-Form-A	1C	350	120	35	3750	2	1	3/3	1.75	1.59	1.49
1583009	LCA110S	SOIC-6	Single pole, 1-Form-A	3C	350	120	35	3750	2	1	3/3	1.75	1.61	1.51
1583025	LCA120L	DIP-6	Single pole, 1-Form-A	1D	250	170	20	3750	5	1	5/5	2.55	2.38	2.23
1583041	LCA710	DIP-6	Single pole, 1-Form-A	1D	60	1000	0.5	3750	10	1	2.5/0.25	4.75	4.41	4.14
1583164	PLA132S	SOIC-6	Single pole, 1-Form-A	3D	50	600	1	3750	5	1	5/2	3.99	3.70	3.47
1583050	LCB110	DIP-6	Single pole, 1-Form-B	1C	350	120	35	3750	5	1	3/3	2.45	2.24	2.10
1583068	LCB120	DIP-6	Single pole, 1-Form-B	1D	250	170	20	3750	5	1	5/5	3.05	2.80	2.63
1583084	LCC110	DIP-8	Common input, 1-Form-C	1E	350	120	35	3750	8	1	4/4	3.85	3.54	3.32
1583092	LCC120	DIP-8	Common input, 1-Form-C	1E	250	170	20	3750	10	1	5/5	4.85	4.53	4.25
1583148	PAA140A	SOIC-8	Single pole, 2-Form-A	3A	400	250	8	3750	50	1	3/1	6.55	6.07	5.69

## DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Zero crossing



164996 (Fig. 1)



153058 (Fig. 2)



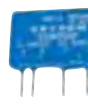
162342 (Fig. 3)



192815 (Fig. 4)



176698 (Fig. 5)



127790 (Fig. 6)



176735 (Fig. 7)



187004 (Fig. 8)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing			
													1	10	50	100
Solid State Relays DC/AC Type																
164988	S101S02	Sharp	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	\$3.95	\$3.49	\$2.95	\$2.25
164996	S202TA1	Sharp	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	5.45	4.89	3.92	2.94
153058	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	9.99	9.29	8.49	7.99
162342	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	19.15	17.27	15.55	13.99
162369	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	26.35	23.75	21.35	19.27
162406	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	27.59	24.84	22.44	20.16
105081	615-8500	Teledyne	5-10VDC	DC/AC	SPST	250VAC	10A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.99	14.39	12.99	11.69
192815	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	4	Screw Terminal	—	1.8 x 0.6 x 2.3	24.06	21.64	19.48	17.54
175214	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	6	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	7.19	6.75	6.73	6.71
176698	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	10.89	9.80	8.71	7.84
176719	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	7	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	7	Screw Terminal	—	1.7 x 0.9 x 2.3	44.39	39.95	31.96	23.97
186992	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	10A	4	8	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	20A	4	8	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.96	14.37	13.24
Solid State Relays DC/DC Type																
172591	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	\$11.94	\$10.74	\$9.54	\$8.34
175222	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	5	Solder Lead	—	1.5 x 0.3 x 0.9	13.95	12.99	12.69	12.32
176647	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	7	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	7	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

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## Signal Relays

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## AGQ Series Low Signal Relay

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
760341	AGQ2004H	1A	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.28 x 0.21	\$2.99	\$2.95	\$2.67



## AGQ Series Low Signal Relays (SMD)

760368	AGQ200A03 	2B	DPDT	3	64.2	46.7	1.0	0.3	8	0.42 x 0.28 x 0.21	\$4.69	\$4.25	\$4.09
842540	AGQ200A12 	2B	DPDT	12	1028	11.7	1.0	0.3	8	0.42 x 0.28 x 0.21	3.15	3.09	2.77

## AGN Series Compact Low Signal Relay















842494	AGN2004H 	3A	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.22 x 0.35	\$2.59	\$2.55	\$2.48
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## AGN Series Compact Low Signal Relays (SMD)

760325	AGN200A03 	4B	DPDT	3	64.2	46.7	1.0	0.3	8	0.42 x 0.22 x 0.35	\$3.39	\$3.12	\$2.77
842523	AGN200A4H 	4B	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.22 x 0.35	2.89	2.75	2.61

## DS Series Low Signal Relays (High Sensitivity &amp; Standard Coils)

Lower\$\$\$


Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
760616	DS1E-S-DC5V 	5C	SPDT	5	125	—	2.0	2.0	5	0.59 x 0.39 x 0.37	\$5.95	\$5.93	\$5.74
760595	DS1E-S-DC12V 	5C	SPDT	12	720	—	2.0	2.0	5	0.59 x 0.39 x 0.37	5.95	5.93	5.27
842734	DS1E-M-DC12V 	5C	SPDT	12	360	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.25	3.85	3.51
842769	DS1E-M-DC24V 	5C	SPDT	24	1440	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.25	4.00	3.74
842849	DS2E-M-DC5V 	6D	DPDT	5	62.5	80	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.81	2.61
842953	DS2E-S-DC5V	6D	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.37	3.65	3.64	3.23
760691	DS2E-S-DC9V 	6D	DPDT	9	405	—	2.0	2.0	8	0.79 x 0.39 x 0.37	4.15	3.82	3.40
842793	DS2E-M-DC12V 	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.80	2.61
760659	DS2E-M-DC12V 	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.80	2.61
760632	DS2E-M-DC12V-R 	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	3.45	3.08	2.77
842902	DS2E-S-DC12V 	6D	DPDT	12	720	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	3.69	3.53	3.37
842814	DS2E-M-DC24V 	6D	DPDT	24	1440	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	2.95	2.89	2.58
842937	DS2E-S-DC24V 	6D	DPDT	24	2880	8.3	2.0	2.0	8	0.79 x 0.39 x 0.37	3.69	3.53	3.37
760675	DS2E-S-DC48V 	6D	DPDT	48	11520	4.1	2.0	2.0	8	0.79 x 0.39 x 0.37	4.95	4.73	4.50
843041	DS4E-S-DC12V 	7E	4PDT	12	720	—	2.0	2.0	14	1.39 x 0.39 x 0.37	7.09	6.77	6.45

\* Reverse polarity


\* Please call or visit our website for minimum order quantity and pricing

## DS Series Dual Coil Latching Relays (High Sensitivity &amp; Standard Coils)



NEW

842873	DS2E-ML2-DC12V	6F	DPDT	12	400	30	2.0	2.0	10	0.79 x 0.39 x 0.39	\$3.55	\$3.33	\$3.10
843016	DS4E-ML2-DC12V 	7G	DPDT	12	400	—	2.0	2.0	16	1.39 x 0.39 x 0.39	6.09	5.48	4.93






## DS2Y Series Low Signal Relay

842996	DS2Y-S-DC5V 	8H	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.39	\$2.49	\$2.31	\$2.12
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## TK Series Low Signal Relays












843366	TK1-5V 	9I	SPDT	5	178	28.1	2.0	0.5	6	0.42 x 0.35 x 0.16	\$4.29	\$3.99	\$3.55
843331	TK1-12V 	9I	SPDT	12	1028	11.7	2.0	0.5	6	0.42 x 0.35 x 0.16	4.29	3.99	3.55

## TN Series Low Signal Relays

761491	TN2-3V 	10J	DPDT	3	64.3	46.7	1.0	0.5	8	0.55 x 0.22 x 0.39	\$3.79	\$3.51	\$3.12
843454	TN2-5V 	10J	DPDT	5	178	28.1	1.0	0.5	8	0.55 x 0.22 x 0.39	3.29	3.12	2.65
761504	TN2-9V 	10J	DPDT	9	579	15.5	1.0	0.5	8	0.55 x 0.22 x 0.39	3.79	3.51	2.65
843391	TN2-12V 	10J	DPDT	12	1028	11.7	1.0	0.5	8	0.55 x 0.22 x 0.39	3.55	3.23	2.95
843420	TN2-24V 	10J	DPDT	24	2880	8.3	1.0	0.5	8	0.55 x 0.22 x 0.39	3.75	3.38	3.20

## TQ Series Low Signal Relays

Lower\$\$\$

761563	TQ2-3V 	11K	DPDT	3	64.3	46.7	1.0	0.5	10	0.55 x 0.35 x 0.20	\$2.59	\$2.38	\$2.12
761766	TQ2SA-3V 	12L	DPDT	3	64.3	46.7	2.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.71	2.41
761580	TQ2-4.5V 	11K	DPDT	4.5	144	31.1	1.0	0.5	10	0.55 x 0.35 x 0.20	2.49	2.38	2.12
761782	TQ2SA-4.5V 	12L	DPDT	4.5	145	31.3	2.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.71	2.41
761601	TQ2-5V 	11K	DPDT	5	178	28.1	1.0	0.5	10	0.55 x 0.35 x 0.20	2.49	2.38	2.13
761803	TQSS-5V 	13L	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	3.09	2.77	2.49
843542	TQ2SA-5V 	12L	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	2.75	2.58	2.41
761627	TQ2-6V 	11K	DPDT	6	257	23.3	1.0	0.5	10	0.55 x 0.35 x 0.20	2.69	2.51	2.23
843500	TQ2SA-12V 	12L	DPDT	12	1028	11.7	2.0	0.5	10	0.55 x 0.35 x 0.20	2.75	2.40	2.05
843471	TQ2-24V 	11K	DPDT	24	2880	8.3	1.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.71	2.53
843526	TQ2SA-24V 	12L	DPDT	24	2880	8.3	2.0	0.5	10	0.55 x 0.35 x 0.20	2.69	2.63	2.56

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



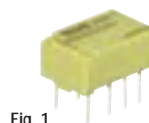
 RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Fig. 1



Fig. 2

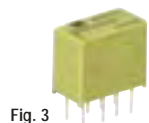


Fig. 3

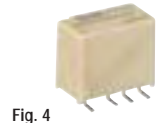


Fig. 4

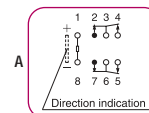


Fig. 5

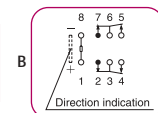


Fig. 6



Fig. 7

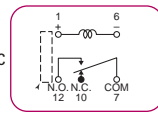


Fig. 8

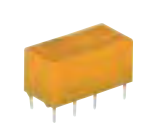


Fig. 9

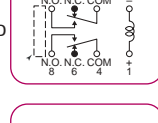


Fig. 10

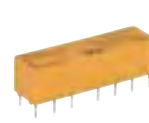


Fig. 11

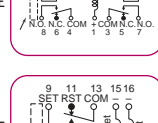


Fig. 12



Fig. 13

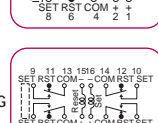


Fig. 14



Fig. 15

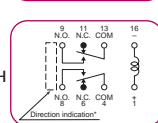


Fig. 16



Fig. 17

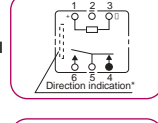


Fig. 18



Fig. 19

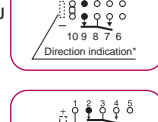


Fig. 20



Fig. 21

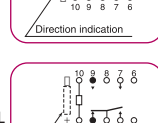


Fig. 22






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## Signal Relays (Continued)










**Lower \$\$\$**

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

### TQ Series Dual Coil Latching Relays

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
761707	TQ2-L2-3V 	11M	DPDT	3	45	66.7	1.0	0.5	10	0.55 x 0.35 x 0.20	\$0.79	\$0.72	\$0.67
761723	TQ2-L2-4.5V 	11M	DPDT	4.5	101.2	44.4	1.0	0.5	10	0.55 x 0.35 x 0.20	3.19	2.98	2.25
761660	TQ2-L2-5V 	11M	DPDT	5	125	40.0	1.0	0.5	10	0.55 x 0.35 x 0.20	3.09	2.84	2.15
843569	TQ2SA-L2-5V 	12N	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	3.45	3.00	2.55
761686	TQ2-L2-24V 	11M	DPDT	24	1920	12.5	1.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.72	2.55


### TX Series Low Signal Relays

761871	TX2-L2-5V 	14Q	DPDT	3	64.3	46.7	1.0	—	10	0.59 x 0.29 x 0.32	\$3.35	\$3.20	\$3.04
761846	TX2-4.5V 	15P	DPDT	4.5	145	31.0	2.0	—	8	0.59 x 0.29 x 0.32	1.79	1.72	1.64
761977	TX2SL-4.5V 	16Q	DPDT	4.5	145	31.0	2.0	—	8	0.59 x 0.29 x 0.32	2.99	2.68	2.41
843649	TX2SA-5V 	16Q	DPDT	5	178	28.1	2.0	—	8	0.59 x 0.29 x 0.32	2.79	2.71	2.05
843614	TX2SA-12V 	16Q	DPDT	12	1028	11.7	2.0	—	8	0.59 x 0.29 x 0.32	2.95	2.71	2.05
843585	TX2-24V 	15P	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.15	3.02	2.88
761897	TX2SA-24V 	16Q	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.45	3.20	2.42
761951	TX2SL-24V 	16Q	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.65	3.36	2.99
761854	TX2-48V 	15P	DPDT	48	8533	5.6	2.0	—	8	0.59 x 0.29 x 0.32	4.25	3.89	3.49

### TXS Series High Sensitivity Low Signal Relays

762056	TXS2-4.5V 	15P	DPDT	4.5	405	11.1	1.0	—	8	0.59 x 0.29 x 0.32	\$3.35	\$2.92	\$2.48
762030	TXS2-12V 	15P	DPDT	12	2880	4.2	1.0	—	8	0.59 x 0.29 x 0.32	3.35	2.92	2.48

### RK Series High Frequency Relay (1.5GHz)

843323	RK1-5V 	17R	SPDT	5	125	40.7	0.5	—	9	0.80 x 0.44 x 0.38	\$8.99	\$8.35	\$7.41
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

**Panasonic**

## Power Relays

**NEW**





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### DSP Series General Purpose Relays



Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
843075	DSP1-DC12V 	18S	DPST-NO/NC	12	480	25.0	5.0	5.0	6	0.79 x 0.43 x 0.41	\$6.29	\$5.72	\$5.21
843104	DSP1-DC24V 	18S	DPST-NO/NC	24	1920	12.5	5.0	5.0	6	0.79 x 0.43 x 0.41	6.29	5.72	5.21

### HC Series Miniature Power Relays



**Lower \$\$\$**

760798	HC2-H-DC12V 	19T	DPDT	12	160	75.0	—	7.0	8	1.07 x 0.82 x 1.38	\$7.85	\$7.28	\$6.47
760835	HC2-HP-DC24V 	19T	DPDT	24	650	37.0	—	7.0	8	1.07 x 0.82 x 1.38	9.15	8.49	7.13
760894	HC4-HP-DC12V 	19U	4PDT	12	160	75.0	—	5.0	14	1.07 x 0.82 x 1.38	9.15	8.47	7.53
760851	HC4-H-AC24V 	19U	4PDT	24VAC	—	50.0	—	5.0	14	1.07 x 0.82 x 1.38	9.55	8.60	7.74





### HL Series Space Saving Power Relays

760931	HL1-HTM-DC24V 	20V	SPDT	24	650	37.0	15A @ 125VAC	5	1.69 x 0.81 x 1.35	\$6.89	\$6.21	\$5.59
760991	HL2-HP-DC24V 	20W	DPDT	24	650	37	10A @ 250VAC	8	1.07 x 0.82 x 1.39	7.59	6.82	6.14





### JQ Series High Noise Immunity Power Relays

761037	JQ1-5V 	21X	SPDT	5	62.5	80.0	5.0	5.0	5	0.79 x 0.39 x 0.61	\$2.99	\$2.79	\$2.63
761045	JQ1AP-12V 	21Y	SPST-NO	12	720	16.7	10.0	5.0	4	0.79 x 0.39 x 0.61	★	Call	Call

### JS Series Power Relays

843155	JS1-5V 	22Z	SPDT	5	72	69.4	—	10.0	5	0.87 x 0.63 x 0.63	\$1.15	\$1.08	\$0.96
843121	JS1-24V 	22Z	SPDT	24	1600	15.0	—	10.0	5	0.87 x 0.63 x 0.63	1.19	1.12	1.04
761088	JS1-48V 	22Z	SPDT	48	6400	7.5	—	10.0	5	0.87 x 0.63 x 0.63	1.49	1.41	1.25
843171	JS1A-24V 	22a	SPST-NO	24	1600	15.0	—	10.0	5	0.87 x 0.63 x 0.63	★	Call	Call

### JTN Series Economical Relays (for Appliance & Automotive)

761141	JTN1AS-PA-F-DC12V 	23b	SPST-NO	12	180	—	—	30@277	4	1.26 x 1.06 x 0.80	★	Call	Call
761184	JTN1AS-TMP-F-DC12V 	24c	SPST-NO	12	180	—	—	30@277	—	1.27 x 1.08 x 1.10	2.87	2.79	2.46
761168	JTN1AS-PA-F-DC24V 	23b	SPST-NO	24	720	—	—	30@277	4	1.26 x 1.06 x 0.80	2.89	2.76	2.63
761213	JTN1S-PA-F-DC24V 	23b	SPDT	24	720	—	—	30@277	4	1.26 x 1.06 x 0.80	2.69	2.55	2.49

1 Plug-in 2 PCB terminal 3 Top-mount 4 High caps ★ Please call or visit our website for minimum order quantity and pricing



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19

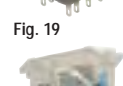


Fig. 20



Fig. 21



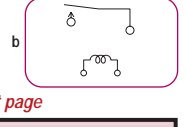
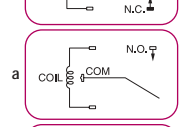
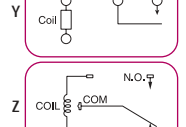
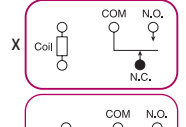
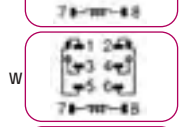
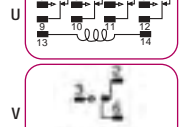
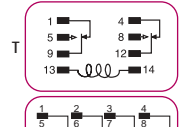
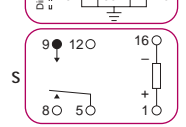
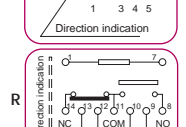
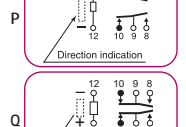
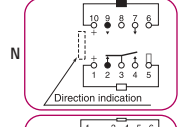
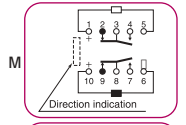
Fig. 22



Fig. 23



Fig. 24





Electromech

Continued on next page

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## Power Relays (Continued)

### JW Series Power Relays

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ohms)	Coil Curr. (mA)	Contact Rating (A) 30VDC	A@VAC	Pins	Dimensions (L" x W" x H")	Pricing		
											1	50	300
761256	JW1AFSN-DC12V	25d	SPST-NO	12	270	44	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call
761310	JW1FSN-DC5V	25d	SPDT	5	47	106	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call
843201	JW1FSN-DC24V	25d	SPDT	24	1100	22	10.0	10@250	5	1.13 x 0.50 x 0.79	2.09	1.95	1.85
761299	JW1FSN-B-DC24V	25d	SPDT	24	1100	22	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call
761336	JW2SN-DC5V	26e	DPDT	5	47	106	5.0	5@250	6	1.13 x 0.50 x 0.79	★	Call	Call
843235	JW2SN-DC12V	26e	DPDT	12	270	44	5.0	5@250	6	1.13 x 0.50 x 0.79	2.19	2.10	2.00
843260	JW2SN-DC24V	26e	DPDT	24	1100	22	5.0	5@250	6	1.13 x 0.50 x 0.79	2.39	2.24	2.12
843294	JW2SN-DC48V	26e	DPDT	48	4400	11	5.0	5@250	6	1.13 x 0.50 x 0.79	★	Call	Call

5 Class B insulation

★ Please call or visit our website for minimum order quantity and pricing

### ALD Slim Power Relay

760405	ALD124	27f	SPST-NO	24	2880	8.3	3.0	3@277	4	0.80 x 0.28 x 0.59	\$1.69	\$1.57	\$1.39
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### ALZ Series Power Relays

760464	ALZ22B12	28g	SPST-NO	12	360	33.3	—	16@250	8	1.13 x 0.49 x 0.62	\$1.75	\$1.68	\$1.61
760448	ALZ12B12	28h	SPDT	12	360	33.3	—	16@250	6	1.13 x 0.49 x 0.62	1.75	1.70	1.64

### ALF Series Power Relay (for Home Appliances)

760421	ALF1T24	29i	SPST-NO	24VDC	640	37.5	—	20@250	—	1.19 x 0.62 x 0.92	\$3.55	\$2.98	\$2.69
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▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



Fig. 25



Fig. 26



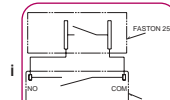
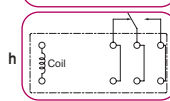
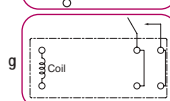
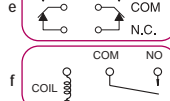
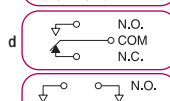
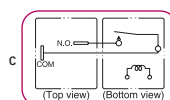
Fig. 27



Fig. 28



Fig. 29



## Small High-Current PC Mount Relays

Lower\$\$\$

Quantity SAVE

While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)

129349: Immersion cleanable, plastic sealed case

144186: For use with universal relay card (P/N 128910, pg 311)

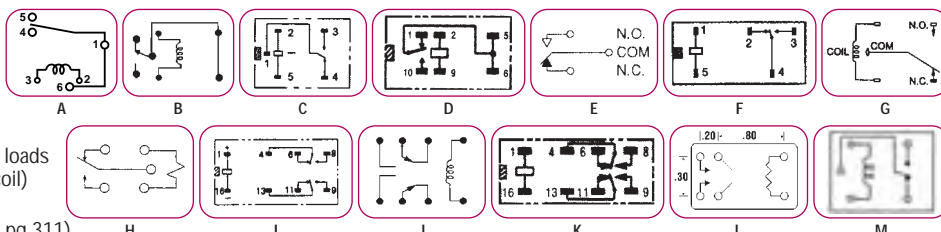


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

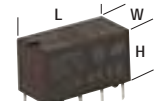


Fig. 10

Part No.	Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing			
												1	10	50	100
145753	L90A-12W	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
134949	L90-5W	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	\$2.49	2.29	2.06	1.65
174450	LU-5	Rayex	T81H5D215	2B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.79	1.66	1.55	1.49
187151	G5LE-1DC5	Omron	—	3C	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.41	1.38	1.34	1.27
187240	G5V-1-DC5	Omron	—	4D	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	\$2.05	1.65	1.62	1.57
664309	JW1FSN-DC12V	Nais (Aromat)	—	5E	SPDT	12VDC	270	250VAC/30VDC	10	5	1.13 x .51 x .79	1.85	1.65	1.40	1.24
186669	G2R-14-DC12	Omron	—	6F	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x .51 x 1.0	3.09	2.92	2.77	2.71
172937	JS1-12V	Nais (Aromat)	T72M5D121-12	7G	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186	JZC-22F	Velleman	VR15M121C	2H	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174432	LEG-12F	Rayex	T7CS5D12	2H	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	2.09	1.80	1.66	1.52
184461	G5V-1-DC12	Omron	—	4D	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.25	2.05	1.82	1.64
187282	G6A-234PSTUSD5	Omron	—	8I	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.99	3.80	3.64	3.48
174378	LM2-12D	Rayex	RKA5DZ12	9J	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258	G5V-2-DC12	Omron	—	10K	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
215909	RKA-7DZ-12	P & B	—	6L	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39
454563	KLTC12DC9	Hasco	—	2M	SPDT	9VDC	225	120VAC/28VDC	12	5	0.73 x .59 x 0.61	2.29	2.06	1.65	1.24

\* Manufacturer may vary



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## Potter & Brumfield General Purpose Relays

Lower \$\$\$

- Industry standard termination for quick installation
- UL/CSA approved
- Wide range of coil voltages for industrial and commercial applications
- Contact arrangements from SPDT to 4PDT



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Part No.	Product No.	Tyco No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Curr. (mA)	Mating Socket*		Pricing			
									Standard	DIN Rail	1	10	25	50
282247	K10P-11A15-120	4-1393144-0	1	DPDT	15A @ 30VDC; 15A @ 120VAC	120VAC	3,900	11	27E488/489	27E895	\$7.29	\$6.70	\$6.14	\$5.67
282255	K10P-11D15-12	5-1393144-5	1	DPDT	15A @ 30VDC; 15A @ 120VAC	12VDC	160	75	27E488/489	27E895	7.25	6.70	6.15	5.80
282263	K10P-11D15-24	5-1393144-7	1	DPDT	15A @ 30VDC; 15A @ 120VAC	24VDC	650	37	27E488/489	27E895	7.29	6.71	6.15	5.99
282271	KHAU-17A11-120	2-1393122-0	2	4PDT	3A @ 120VAC/28VDC (max)	120VAC	3,900	11	27E166	27E894	6.89	6.78	6.60	6.46
282301	KHAU-17D11-12	4-1393122-3	2	4PDT	3A @ 120VAC/28VDC (max)	12VDC	160	100	27E166	27E894	5.85	5.52	5.48	5.45
282319	KHAU-17D12-24	5-1393122-7	2	4PDT	5A @ 120VAC/28VDC (max)	24VDC	650	52	27E166	27E894	5.89	5.46	5.43	5.39
282351	KRPA-11AG-24	1-1393105-2	3	DPDT	10A @ 240VAC	24VAC	85	84	27E122	27E891	11.69	10.63	10.10	9.80
282343	KRPA-11AG-120	2-1393104-5	3	DPDT	10A @ 240VAC	120VAC	2,250	17.5	27E122	27E891	12.49	11.35	10.41	10.05
282378	KRPA-11DG-12	4-1393104-3	3	DPDT	10A @ 240VAC	12VDC	120	100	27E122	27E891	11.69	10.63	9.75	9.66
282386	KRPA-11DG-24	4-1393104-5	3	DPDT	10A @ 240VAC	24VDC	472	51	27E122	27E891	\$12.25	10.63	9.79	9.69
301188	KRPA-14DG-12	8-1393104-2	3	3PDT	10A @ 240VAC	12VDC	120	100	27E123	27E892	15.15	13.63	12.62	12.34
282423	KRPA-14DG-24	8-1393104-4	3	3PDT	10A @ 240VAC	24VDC	472	51	27E123	27E892	13.15	11.93	10.94	10.85
301209	KRPA-14DG-110	8-1393104-1	3	3PDT	10A @ 240VAC	110VDC	10,000	11.5	27E123	27E892	14.05	13.40	12.78	12.23
301217	KRPA-14DN-24	9-1393104-0	3	3PDT	10A @ 240VAC	24VDC	472	51	27E123	27E892	\$13.75	12.85	12.72	12.58
282458	KUHP-11A51-120	6-1393114-9	4	DPDT	20A @ 120/240VAC	120VAC	1,700	24	—	—	13.31	12.33	11.22	10.95
499526	KUMP-7A58-24	9-1393116-7	5	DPST NO	15A @ 277VAC	24VAC	72	115	27E121	27E893	18.75	18.27	17.94	17.61
499817	KUP-11D15-36	4-1393117-6	5	DPDT	10A @ 28VDC or 240VAC	36VDC	1,800	26.7	27E121	27E893	18.42	17.97	16.04	13.86
282482	KUP-14A35-120	8-1393117-7	5	3PDT	10A @ 28VDC or 240VAC	120VAC	1,700	24	27E121	27E893	\$13.35	12.29	12.05	11.80

\* For sockets see page 198

= Silver-cadmium oxide, no lamp

= Silver-cadmium oxide with lamp

= with indicator lamp



## Beta Electric General Purpose Relays

### Pin Type Terminals

- DPDT • 8-pin octal style plug
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient operating temperature: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H



Quantity SAVE



139766/  
139741

141145

141153

### BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766	BTA1-2C-12VDC	R02-11D10-12	12VDC	\$11.15	\$9.48	\$7.12
139741	BTA1-2C-120VAC	R02-11A10-120	120VAC	11.94	10.55	9.59

### BTA1 Series Sockets (250 VAC, 20 Amps)

Part No.	Product No.	Pins	Dimensions	1	10	50
141145	PF-083A	8	2.0"L x 1.6"W x 0.8"H	\$4.39	\$4.08	\$3.31
141153	PF-113A	11	2.0"L x 1.7"W x 1.2"H	5.58	4.74	3.56

### BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A
- Ambient operating temperature: -30°C to +50°C
- Size: 1.5"L x 1.4"W x 2.2"H • 3PDT • 11-pin

Quantity SAVE



Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139854	BTA2-3C-24VDC	R10-14D10-24	24VDC	\$7.85	\$6.67	\$5.00

JAMECO ValuePro

## General Purpose Relays

8 Pin Jumper EXCLUSIVE

### LB2 Series

- Contact rating: 240VAC/30VDC @ 12A • DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load



Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	50	100
172719	LB2-12DS	K10-11D15-12	12VDC	\$5.39	\$4.85	\$4.31	\$3.88
175565	LB2-24DS	K10-11D15-24	24VDC	6.49	5.93	5.32	4.85
175573	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

### LB4H Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load



Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	25	50
291507	LB4H-12DS	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175602	LB4H-24DS	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610	LB4H-110AS	KHAU-17A12-120	110VAC	5.55	5.20	4.92	4.57

### Relay Sockets

- DIN rail snap socket for LB2 & LB4H relays

Part No.	Mfg. P/N	P & B Cross Ref.	Pins	1	10	50
175530	PTF-08A-A	27E895	8	\$6.65	\$5.98	\$5.38
175557	PYF-14A-A	27E894	14	3.95	3.49	2.95



## Dry Contact & Mechanical Relay Output Module

- Contact arrangement: SPST NO
- Max. current rating: 10W
- Min. drop-out voltage: 2.5VDC
- Max. off-state leakage current: 0.002mA
- UL, CSA certified
- Built-in status LED
- Max. contact resistance: 250mΩ
- Nominal logic voltage: 5Vcc
- 1500VAC optical isolation
- Max. rev. logic voltage: -5VDC



Part No.	Product No.	Supply Current	Max. Logic Voltage	Max. Line Voltage	Nom. Input Resistance	1	10	25
469458	70M-ODC5R	10mA	100VDC/120VAC	50Ω	....	\$20.05	\$19.02	\$18.07

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## Input/Output Module Relays

- Switch form: SPST-NO • Isolation: 4,000V<sub>RMS</sub>, 60Hz
- Capacitance: 8pF typical (input to output)

Ⓢ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Color	Voltage	Resistance	1	10	25	50
551822	OACM-5H	Black	5VDC	220Ω	\$14.15	\$13.40	\$12.73	\$12.11
282511	ODC-5	Red	5VDC	250Ω	9.55	9.38	9.30	9.26



## Industrial Relay

### S87R Series Low Cost 20A

- DPDT • Nominal power: 4.5W
- Coil terminal: located perpendicular to switch terminals
- Nominal coil current: 188mA • 0.250" quick connect solder
- Material: silver and silver cadmium oxide
- Expected life: 1 million operations, mechanical;  
50,000 operations@rated load • Initial breakdown voltage: 1500V<sub>RMS</sub>, 60Hz

Part No.	Product No.	Coil Volt.	Coil Resistance	1	10	25	50
552788	S87R11D2B1D124	24VDC	12Ω	\$45.19	\$43.07	\$41.02	\$39.70



## CS Series Solid State Hybrid Voltage Sensors

- Power requirements: typically less than 3W
- Continuous duty cycle
- Internal contact arrangement: DPDT
- Internal relay contact rating:  
10A @ 28VDC resistive; or 120VAC
- Reverse polarity protection on DC types
- 8-pin octal style plug, plastic dust cover

497491

497504

### Fixed pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497491	CSJ-38-71010	105	90-103	140VAC	\$173.99	\$165.70	\$157.81

### Adjustable pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497504	CSL-38-30010	20-30	18-28	32VDC	\$189.09	\$179.65	\$170.67



## Relay Sockets

Lower \$\$\$



282132

282141

282183

282191

### Relay Sockets for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132	27E122	DPDT	8	Standard	\$4.15	\$3.82	\$3.69	\$3.57
282159	27E891	DPDT	8	DIN rail	4.85	4.65	4.45	4.05
282141	27E123	3PDT	11	Standard	4.55	4.39	4.19	3.89

### Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183	27E894	4PDT	14	DIN rail	\$6.99	\$6.69	\$6.39	\$5.89

### Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191	27E895	DPDT	8	DIN rail	\$4.75	\$4.55	\$4.35	\$3.99

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## CDB Series CMOS IC Time Delay Relay

- Initial dielectric strength: between open contacts – 500V<sub>RMS</sub>, 60Hz;  
between other contacts – 500V<sub>RMS</sub>, 60Hz
- Timing ranges: 0.1 seconds to 180 seconds
- Timing adjustment: knob type • DPDT
- Release and recycle time: 45ms typical; 60ms max.
- Contact material: silver-cadmium oxide alloy
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

Power requirement: AC or DC – typically less than 3W

Part No.	Product No.	Voltage	Time (sec)	Pins	1	10	25
497299	CDB-38-70004	120VAC	0.6 – 60	8	\$246.09	\$234.39	\$223.23



## CNM5 Series Multi-Function Time Delay Relay

- For plug-in or panel mount • DPDT
- Digital adjustment via thumbwheel switches
- Timing ranges: 0.1 – 99.9/1 to 999 seconds; 0.1 – 99.9/1 to 999 minutes; 0.1 – 99.9/1 – 999/10 – 9,990 hours
- Reset time (power interruption): 45ms typical; 60ms max.
- Initial dielectric strength: between output poles – 1500V<sub>RMS</sub>, 60Hz; between input and output – 1500V<sub>RMS</sub>, 60Hz
- Contact material: silver-cadmium oxide alloy
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operation min. @ rated load
- 1/16 black plastic case • Transient protection: 13 joules MOV

Power requirement: 3W @ 120VAC

Part No.	Product No.	Voltage	Pins	1	10	25
497344	CNM5	120VAC	11	\$82.29	\$78.39	\$74.66



## CNS Series Multifunction Time Delay Relays

- DPDT
- Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000V<sub>RMS</sub>, 60Hz between open contacts; 1,500V<sub>RMS</sub>, 60Hz between all other conductors

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 25VAC/VDC

Part No.	Product No.	Voltage	Timing Functions	Pins	1	10	25
497352	CNS-35-72	120VAC	4	8	\$82.85	\$78.91	\$75.16
282212	CNS-35-92	24-240VAC/VDC	4	8	67.89	62.23	56.57
282221	CNS-35-96	24-240VAC/VDC	8	11	79.05	75.46	71.87



## CNT Series Multifunction, Digital Time Delay Relay/Counter

Lower \$\$\$

- Digital adjustment via thumbwheel switches
- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- DPDT • 11-pin octal style plug
- Rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operations min. at rated load
- Dielectric strength: 1,000V<sub>RMS</sub>, 60Hz between open contacts; 1,500V<sub>RMS</sub> between all other contacts

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Product No.	Voltage	1	10	25
282239	CNT-35-96	24-240VAC/VDC	\$103.95	\$99.99	\$98.25



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**crydom**

## Solid State Relays

### Series SDV Solid State

- Operating voltage range: 12 – 128V<sub>RMS</sub>
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Max. capacitance, input-output: 2pF
- Load current range: 0.025 – 1.5A<sub>RMS</sub>
- Transient over voltage: 600Vpk
- Max. surge current: 30Apk
- Control voltage range: 3.5 – 10VDC
- Typical input current @ 5VDC: 15mADC
- Must turn-on voltage: 3.5VDC
- Must turn-off voltage: 1VDC
- Dielectric strength: 3750V<sub>RMS</sub>
- Nominal input impedance: 270Ω

**Lower \$\$\$**

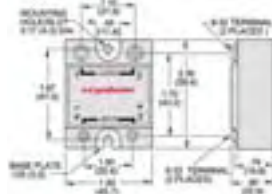


Part No.	Product No.	Description	1	10	50	100
480913	SDV2415	0 voltage relay	\$7.95	\$7.67	\$7.34	\$7.09

### Series T Solid State

- Zero voltage switching
- Internal snubber
- Dielectric strength 50/60Hz input/output/base: 4000V<sub>RMS</sub>
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Max. capacitance input/output: 8pF
- Encapsulation: Thermally conductive epoxy
- Terminals: screws and saddle clamps
- 600V transient capability
- Control voltage range: 3-32VDC
- Max. turn-on voltage: 3VDC
- Nominal input impedance: 1500Ω
- Typical input current: 3mA @ 5VDC; 20mA @ 28VDC
- Panel mount
- Triac output
- Max. reverse voltage: -32VDC
- Min. turn-off voltage: 1VDC

**Lower \$\$\$**



Part No.	Product No.	Op. Voltage (V <sub>RMS</sub> )	Max. Load Current (A <sub>RMS</sub> )	1	10	50	100
480972	TD1210	24-140	10	\$26.29	\$25.08	\$23.97	\$23.75
481001	TD2410	24-280	10	\$25.99	\$25.69	\$25.39	\$25.18

**OMRON**

## G7L Series Power Relay

- Rating: 24VDC @ 79mA
- Coil resistance: 303Ω
- 0.250" quick connect terminals
- Insulation resistance: 1,000MΩ min. (@500VDC)
- Dielectric withstanding voltage: 5,000VAC for one minute between contacts and coil, 2000VAC between contacts of same polarity
- Contact rating: 20A-220VAC
- Contact resistance: 50mΩ max.
- SPST-NO

**Quantity SAVE**

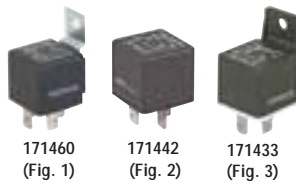
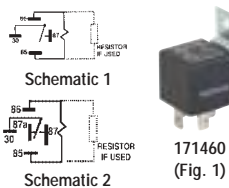


Part No.	Product No.	1	10	50	100
454571	G7L-1A-TUB-CB-DC24	\$8.55	\$7.27	\$5.45	

## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A
- Terminal type: quick connect
- Coil voltage: 12VDC except P/N 171522 (5VDC)
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Part No.	Cross Ref. No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Contact Schematic	Contact Voltage	Pins	1	10	50	100
171460	LD1A-12F	VF4-81F11S01	1	SPST-NO	78	1	14VDC	4	\$2.29	\$2.11	\$1.87	\$1.55
171442	961A-1A12D	VF4-11F11	2	SPST-NO	90	1	14VDC	4	2.69	2.53	2.46	2.40
171522	LD5F	VF4-45D11	3	SPDT	14	2	5VDC	5	1.79	1.43	1.19	1.09
148583	LD12F	VF4-85F11	3	SPDT	78	2	12VDC	5	2.49	2.25	1.95	1.75
171433	961A-1C-12DM	VF4-81F11	3	SPDT	90	2	12VDC	5	2.99	2.69	2.25	1.65

## Relay Socket with Coil Diode

### VF4 Type

- 12 AWG: 2 black & 1 blue wire
- 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Use with P/N 148583, above
- 7.5" wire
- Diode coil suppression



Part No.	Cross Ref. No.	1	10	50	100
170624	RSD03	\$2.35	\$2.15	\$1.89	\$1.55

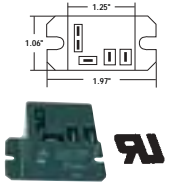
**Jameco ValuePro**

## T9A Series Relay

### Low Cost PC Board or Panel Mount Only

- Contact form: SPDT
- Coil voltage: 12VDC
- Contact volt.: 240VAC/28VDC
- Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)
- Contact current: 20A/10A
- 5-pin
- Coil: 155Ω

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Part No.	Cross Ref. No.	P & B Cross Ref.	Dimensions (LxWxH)	1	10	50	100
137358	953-1C-12DM	T9AS5D52-12	2.0" x 1.6" x 1.8"	\$2.75	\$2.65	\$2.49	\$1.95

**GC**

## Circuit Breakers

- Quick connect style terminals
- Actuator: black plastic button
- Mounting hole: 0.450"
- Included hardware: nut, knurled nut, ID plate



Part No.	Product No.	Current Rating	1	10	50	100
621368	35-2104	4A @ 125/250VAC	\$4.75	\$3.69	\$3.49	\$3.29
621376	35-2105	5A @ 125/250VAC	4.75	3.69	3.49	3.29
621384	35-2106	6A @ 125/250VAC	4.75	3.69	3.49	3.29
621392	35-2107	7A @ 125/250VAC	4.75	3.69	3.49	3.29
621405	35-2018	8A @ 125/250VAC	4.75	3.69	3.49	3.29
621413	35-2110	10A @ 125/250VAC	4.75	3.69	3.49	3.29
621421	35-2112	12A @ 125/250VAC	4.75	3.69	3.49	3.29
621430	35-2115	15A @ 125/250VAC	4.75	3.69	3.49	3.29
621448	35-2120	20A @ 125/250VAC	4.75	3.69	3.49	3.29
621464	35-2130	30A @ 125/250VAC	4.75	3.69	3.49	3.29

**PB**

## W58 Series Thermal Circuit Breakers

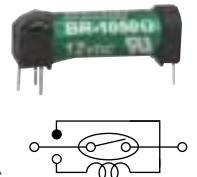
- Max. operating voltage: 50VDC; 250VAC 50/60Hz
- Interrupt capacity: 2,000A @ 50VDC; 1,000A @ 250VAC 50/60Hz
- Endurance cycling: >1,000 operations @ 200% of rating
- Dielectric strength: >1,500V<sub>RMS</sub>
- Push button to reset breaker



Part No.	Product No.	Amp	Resistance	1	25	50	100
282562	W58-XB1A4A-10	10	0.014	\$3.39	\$3.19	\$2.99	\$2.79
282589	W58-XB1A4A-20	20	0.006	3.39	3.19	2.89	2.65

## Reed Type Relay

- 4-pin
- Manufacturer: Bestar
- Contact form: SPST-NO
- Coil voltage: 12VDC
- Coil: 1050Ω
- Contact voltage: 120VAC/60VDC
- Contact current: 0.1A
- Dielectric strength: 1500VDC (between contact and coil)
- Operating temperature: -30°C to +60°C
- Terminal type: PCB solder
- Dimensions: 1.0"L x .37"W x .38"H



Part No.	Cross Ref. No.	1	10	50	100
111448	RC108T	\$1.15	\$1.03	\$0.93	\$0.86

## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

## 24VDC Liquid Level Sensor

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

- Empty type
- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"



Part No.	Description	1	10	25
176250	Sensor empty type 	\$7.39	\$6.28	\$5.29



## -1.1 to 2.5 PSI Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice rated pressure
- Operating volt.: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure • Volt-level output
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H


**SALE**

Part No.	Product No.	1	10	100
196103	XFPN-025-KPGRNW1 ..	\$24.95	\$22.45	\$20.21

## 0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure ( $P_{MAX}$ ): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls • 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)

**Quantity SAVE**


Part No.	Product No.	1	10	100
218827	MPX10GS .....	\$8.99	\$7.64	\$5.74

## Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz  $\pm$ 1.0kHz
- Aluminum case


**136654:**
**Transmit/Receive Set**

- Capacitance: 2000pF  $\pm$ 30%
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40 $\pm$ 1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40 $\pm$ 1.0kHz (R=3.9k $\Omega$ )
- Case size: 0.47"H x 0.62" Dia.


**139492: Transmit/Receive Set**

- Capacitance: 2000pF  $\pm$ 20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40  $\pm$ 1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40  $\pm$ 1.0kHz (R=3.9k $\Omega$ )
- Case size: 0.30"H x 0.43" Dia.



Part No.	Mfg. Part No.	1	10	50
136654	40TR16F 	\$7.95	\$6.29	\$5.65
139492	40TR12B 	7.69	6.96	6.26



## Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Switching frequency: 1.5kHz
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance:  $\pm$ 10% (tin)
- Fast response
- Short circuit protected
- LED status indicator
- Pre-tinned pigtail
- 6' long cable

**Quantity SAVE**


421147



421155



421163



421171



421180



421198















421227



421235



421294

Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia.)	Mounting Hole (in.)	Pricing		
							1	10	25
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	\$10.99	\$9.99	\$8.99
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	20.65	18.61	16.75
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	21.59	19.43	17.27
155571	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6" x 0.70"	0.70	29.94	25.46	19.10
421147	CS12-02N-1 	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	24.69	20.99	15.74
421155	CS12-05N-1 	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	25.25	21.46	16.10
421163	CS18-05N-1 	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	30.95	26.31	19.73
421171	CS18-08N-1 	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	31.29	26.60	19.95
421180	CS30-10N-1 	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	34.95	29.71	22.28
421198	CS30-15N-1 	NPN	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	42.09	35.78	26.84
421201	TS12-05N-1 	NPN	0-4.0mm	12 x 12 x 1	2.5" x 0.80"	0.66	23.59	20.05	15.04
421219	TS18-08N-1 	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.94	26.95	22.91	17.18
421227	TS30-10N-1 	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.40"	1.40	36.29	32.66	24.50
421235	TS30-15N-1 	NPN	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	40.85	36.77	33.09
421243	S17-05N-1 	NPN	0-4.0mm	17 x 17 x 1	1.1" x 0.66"	0.98	14.95	13.45	12.10
421251	S25-07N-1 	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	24.75	21.04	15.78

## Photo Electric Sensors

Part No.	Product No.	Output Circuit	Effec. Dist.	Standard Target	Size	Mounting Hole	1	10	25
421260	WE-T3AD 	NPN	0-5.0m	$\geq$ 8mm Dia.	2.6" x 0.708"	.710	\$73.35	\$62.35	\$46.76
421278	WE-M3D 	NPN	0-2.0m	>10-40mm Dia.	2.6" x 0.708"	.710	50.95	43.31	32.48
421286	WE-R3AL 	NPN	0-200mm	—	2.6" x 0.708"	.710	49.19	41.81	31.36
421294	WE-R3BL 	NPN	0-80mm	15-44mm	2.6" x 0.708"	.710	49.19	41.81	31.36
421307	WE-U3L 	NPN	10-30mm	18-22mm	2.6" x 0.708"	.710	54.19	46.06	34.55

\* Dark-on † Light-on



## Magnetic Proximity Switch Sensors

- Contact rating: 3W max. @ 30VDC or 0.3A max. @ 30VAC
- Contact form: SPST NO • Contact resistance: 100m $\Omega$  max. initial
- Operating temp.: -40°C to 100°C • Dielectric strength: 200VDC min.
- Mechanical & electrical life: 10 million operations
- Housing/spacer/cover: ABS plastic (UL94V-0), white
- Reed switch: rhodium coated, hermetically sealed, nitrogen filled glass capsule
- Wire leads: UL1060 22AWG stranded wire, stripped, 12"L white • Potting: epoxy
- Adhesive mounting: (MPS45WGW only) – foam backed, pressure sensitive



588131


588182

Part No.	Product No.	Description	1	10	100
588131	MPS45WGW	Subminiature surface mount, side exit leads, 1" make gap .....	\$9.25	\$8.48	\$7.78
588123	MPS20WGW	Standard surface mount, screw terminals, 1 1/4" make gap .....	10.59	9.85	9.80
588182	MPS9WGW	3/8" diameter panel mount, recessed magnetic contact, 1 1/4" make gap (switch and magnet) .....	8.35	7.64	7.35




## Optical Sensors

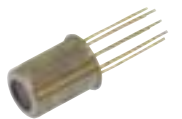
Fully integrated modules for applications which require optical-reflective sensing. Packaged in a TO-5 metal sealed package.

Part No.	Product No.	Resolution (mm)	Wavelength (nm)	1	10	100
1548801	HBC-1100 	0.190	700 .....	\$36.29	\$33.86	\$31.75

The APDS-9002 is a low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It consists of a spectrally suited phototransistor, which peaks in human luminosity curve.

- Supply voltage: 2.4V to 5.5V • Operating temp.: -40°C to 85°C
- Rise time: 0.95 ms • Fall time: 0.8 ms

Part No.	Product No.	Dark Curr. (nA)	Light Curr. Ratio	1	10	100
1548511	APDS-9002-021 	50	1.2 .....	\$7.79	\$7.73	\$6.9

 For more Avago Sensors  
 visit [www.Jameco.com](http://www.Jameco.com)

**NEW**




## Hall-Effect Magnetic Proximity Sensor w/ Snap-Fit Mount

- Solid state reliability
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Operating voltage range: 4.75-24VDC
- Output saturation voltage max.: 400mV
- Immune to dust, dirt & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Output: 3-wire sink
- Reverse polarity protection to -24V



Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	10	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$4.55	\$4.05	\$3.85



## Industrial & Commercial Magnetic Proximity Sensors

### Solid State, Adjustable Threaded Housing

- High speed capability
- South pole sensitive
- Cable/wire insulation: polyolefin
- Output: 3-wire sink
- Source or open collector output
- M12 integral connector meets IEC 60947-5-2
- Operating temp. range: -40°C to 125°C
- Output saturation voltage max.: 700mV



**Industrial Grade** • Immune to hostile environments • Reverse battery protection to -24VDC • SST housing

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Cable/Connector	Pricing		
							1	10	100
513228	MP100502	10	24	25	1	12mm circular conn.	\$23.25	\$21.28	\$19.63

**Commercial Grade** • Anodized aluminum housing (black) • Operating voltage range: 4.75-24VDC

513236	MP100701	12	25	300	60	20AWG x 1m	\$24.25	\$21.81	\$19.63
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## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Can be approached by any magnet from any angle with either pole
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C



### Aluminum Threaded Housing

- Immune to hostile environments
- Suitable for AC/DC circuits

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	25
513279	MP200701	SPST NO	10	175	0.5	0.6	\$7.15	\$6.80	\$6.46

### Cylindrical Plastic Housing

- Resistant to dirt and moisture

482396	AS201701	SPST NO	10	175	0.5	0.5	\$2.58	\$2.45	\$2.25
513308	MP201701	SPST NO	10	175	0.5	0.5	3.05	2.67	2.23
513324	MP201703	SPDT CO	3	100	0.2	1.0	5.55	4.98	4.49



## Reed-Based Magnetic Proximity Sensors

### Plastic Flange Mount

- Hermetically sealed contacts
- Contact resistance: 0.2Ω max.
- Zero power consumption
- Op. temp. range: -40°C to 105°C

**AS2018/MP2018 Series** • Moisture and dirt resistant

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	25
482409	AS201801	SPST NO	10	175	0.5	0.6	\$2.25	\$2.15	\$2.05
513332	MP201801	SPST NO	10	175	0.5	0.6	3.29	2.92	2.44

**AS2019/MP2019 Series** • Suitable for AC/DC circuits • Breakdown volt.: 200VDC min.

482417	AS201901	SPST NO	10	175	0.5	0.6	\$3.25	\$2.85	\$2.38
513359	MP201901	SPST NO	10	175	0.5	0.6	2.85	2.66	2.53
513367	MP201902	SPST NC	3	100	0.2	1.0	4.55	4.28	4.07



## Digital Vane Speed & Proximity Sensors

- Reverse battery protection to -24VDC
- Open collector output compatible w/ all logic families
- Sensor body material: glass filled polyester
- Operating voltage range: 4.5-24VDC
- Output saturation voltage: 400mV max.
- Operating temp. range: -40°C to 85°C



Part No.	Product No.	Output	Termination Pins	Output Current	Supply Current	Pricing		
						1	10	25
577580	VN101501	3-pin sink	Pins	25mA max.	6mA max.	\$6.09	\$5.49	\$4.89
577598	VN101503	3 wire sink	24AWG x 150mm	25mA max.	6mA max.	5.75	5.39	5.13

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## Digital Hall-Effect Magnetic Proximity Sensor

### Low-Profile Flange Mount

- Reverse battery protection to -24VDC
- Output wire: 3-wire sink
- Output saturation voltage max.: 400mV
- Operating voltage range: 4.5-24VDC
- Applications: door position sensing, flow sensing, pedal switch
- Output current: 20mA max.
- Operating point gauss: 185 max.
- Release point gauss: 60 min.
- South pole magnet • Function: unipolar switch
- Supply current: 5.2mA max.



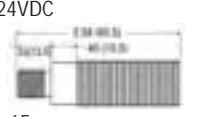
Part No.	Product No.	1	10	25
513252	MP101401	\$4.62	\$4.36	\$4.14



## Industrial Grade Gear Tooth Speed Sensor

### Hall-Effect with Adjustable Steel Housing

- Reverse battery protection to -24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output saturation voltage: 700mV max.
- Output current: 25mA max.
- Output: sink • Barrel length: 65mm
- Operating temp. range: -40°C to 105°C
- M18-1 thread • 12mm circular connector



Part No.	Product No.	1	10	100
512381	GS100201	\$44.70	\$42.47	\$39.62



## Commercial Grade Gear Tooth Speed Sensor

### Hall-Effect w/ Adjustable Aluminum Housing

- Reverse battery protection from 24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Output current: 25mA max.
- Output: sink • Wire: 20AWG x 1m
- Operating temp. range: -40°C to 125°C
- Thread: 15/32" - 32 • Barrel length: 1.0"



Part No.	Product No.	1	10	25
512401	GS100701	\$21.39	\$20.31	\$19.29



## Gear Tooth Speed and Direction Sensor

- 10-bit dynamic threshold
- Capable of 800Hz target speed
- Operating voltage range: 4.75-24VDC
- Reverse battery protected to -30VDC
- Supply current: 20mA max.
- Output saturation voltage: 1000mV max.
- Output current: 20mA max. • Output: sink
- Operating temp. range: -40°C to 125°C



Part No.	Product No.	1	10	100
577336	SD101201	\$26.05	\$25.27	\$24.52



## Actuator Magnet Speed and Proximity Sensor

- Aluminum housing
- Adjustable thread mounting stud
- Operating temp. range: -40°C to 150°C



Part No.	Product No.	Description	1	10	25
482370	AS101001	South pole facing	\$4.89	\$4.34	\$3.61
482388	AS101002	North pole facing	3.65	3.45	3.38



## Spacers



## Aluminum Round Spacers

- Iridite clear finish

Quantity SAVE

3/16" OD, #4 ID (0.115")

\* Minimum order 10 pieces

Part No.	Product No.	Length	1	10	100	1000
392851	1107-4-A-7	1/8"	* \$2.03	\$ .191	\$ .349	
392869	1108-4-A-7	3/16"	.22	.195	.186	.176
392876	1109-4-A-7	1/4"	.20	.194	.19	.185
392884	1110-4-A-7	5/16"	.26	.214	.203	.193
392893	1111-4-A-7	3/8"	.26	.214	.203	.193
392906	1112-4-A-7	7/16"	.34	.288	.274	.26
392921	1115-4-A-7	5/8"	.30	.242	.23	.218
392930	1116-4-A-7	11/16"	.45	.39	.312	.234
392948	1117-4-A-7	3/4"	.33	.279	.265	.252

1/4" OD, #4 ID (0.115")

Part No.	Product No.	Length	1	10	100	1000
393051	1122-4-A-7	1/8"	\$.24	\$.205	\$.194	\$.146
393061	1123-4-A-7	3/16"	.24	.205	.194	.185
393078	1124-4-A-7	1/4"	.24	.205	.194	.146
393086	1125-4-A-7	5/16"	.24	.205	.164	.123
393095	1126-4-A-7	3/8"	.30	.242	.23	.218
393107	1127-4-A-7	7/16"	.39	.326	.309	.232
393115	1128-4-A-7	1/2"	.30	.242	.23	.173
393123	1133-4-A-7	13/16"	.39	.326	.309	.232
393131	1134-4-A-7	7/8"	.39	.326	.309	.232
393140	1136-4-A-7	1"	.39	.326	.309	.232

1/4" OD, #6 ID (0.140")

Blue P/N = Limited Quantity

Part No.	Product No.	Length	1	10	100	1000
393254	1122-6-A-7	1/8"	\$.24	\$.205	\$.194	\$.146
393262	1123-6-A-7	3/16"	.24	.205	.194	.185
393272	1124-6-A-7	1/4"	.24	.205	.194	.185
393290	1125-6-A-7	5/16"	.24	.205	.194	.185
393298	1126-6-A-7	3/8"	.30	.242	.23	.218
393300	1127-6-A-7	7/16"	.39	.326	.309	.232
393319	1128-6-A-7	1/2"	.30	.242	.23	.218
393326	1133-6-A-7	13/16"	.39	.326	.309	.232
393335	1134-6-A-7	7/8"	.39	.326	.309	.294

## Brass Round Spacers

- Zinc clear chromate finish

1/4" OD, #6 ID (0.140")

Part No.	Product No.	Length	1	10	100	1000
393352	1122-6-B-12	1/8"	\$.24	\$.205	\$.194	\$.185



## Washer-Face Aluminum



Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
393976	7100-A	4-40	5/16"	5/8"	\$1.55	\$1.47	\$1.40	\$1.33
393984	7101-A	4-40	3/8"	11/16"	1.55	1.47	1.40	1.33
393992	7105-A	4-40	1/2"	13/16"	1.55	1.47	1.40	1.33
394004	7106-A	8-32	3/8"	11/16"	1.69	1.61	1.53	1.45
394011	7107-A	8-32	1/2"	13/16"	1.75	1.58	1.26	.94
394020	7109-A	10-32	3/8"	11/16"	1.69	1.52	1.22	.92
394038	7111-A	10-32	5/8"	15/16"	1.75	1.66	1.58	1.50
394046	7112-A	1/4-20	3/8"	3/4"	1.79	1.61	1.29	.97



## Instrumentation

## Handles

Quantity SAVE

216821: 10-32 thread

- Material: brass, nickel plate

457801: 6-32 thread

- Material: aluminum
- Oval diameter: 1/4"

Part No.	Size (L" x H" x T")	1	10	100
216821	3.0 x 1.3 x 0.3	\$2.49	\$2.12	\$.159
457801	3.0 x 1.0 x 0.4	2.19	1.76	1.32



## Instrumentation

## Handle

- 8-32 internal thread
- Fully Insulated
- Diameter: .250"
- Size: 4.0"L x 1.5"H x .375"T
- Material: aluminum, black anodized

Part No.	Product No.	Description	1	5	50
1582196	7174	Round	\$2.89	\$2.74	\$2.59



## Standoffs

Quantity SAVE

## Male-Female Hex Aluminum Standoffs

- Iridite clear finish

3/16" Hex, 4-40 Thread

- Thread length: 1/4"



Part No.	Product No.	Length	1	10	100	1000
393458	4501-440-A-7	1/4"	\$.35	\$.298	\$.283	\$.269
393466	4503-440-A-7	3/8"	.35	.298	.283	.269
393474	4505-440-A-7	1/2"	.35	.298	.283	.269
393491	4509-440-A-7	3/4"	.39	.326	.309	.294
393503	4513-440-A-7	1"	.39	.326	.309	.294

3/16" Hex, 6-32 Thread

- Thread length: 3/8"

Part No.	Product No.	Length	1	10	100	1000
393537	4501-632-A-7	1/4"	\$.35	\$.31	\$.279	\$.251
393546	4503-632-A-7	3/8"	.35	.298	.283	.269
393554	4505-632-A-7	1/2"	.35	.298	.283	.269
393571	4509-632-A-7	3/4"	.39	.326	.309	.294
393588	4513-632-A-7	1"	.40	.34	.309	.294

## Male-Female Hex Brass Standoffs

- Zinc clear chromate finish

1/4" Hex, 4-40 Thread

- Thread length: 3/16"

Quantity SAVE

Lower \$\$\$

Part No.	Product No.	Length	1	10	100	1000
393837	4530-440-B-12	1/4"	\$.73	\$.61	\$.58	\$.55
393845	4532-440-B-12	3/8"	.75	.63	.60	.57
393852	4534-440-B-12	1/2"	.81	.69	.65	.62
393861	4536-440-B-12	5/8"	.83	.75	.60	.45
393880	4538-440-B-12	3/4"	.78	.66	.63	.60
393888	4542-440-B-12	1"	.78	.66	.63	.60
393895	4546-440-B-12	1-1/4"	.85	.77	.62	.465
393909	4550-440-B-12	1-1/2"	1.24	1.05	1.00	.95

1/4" Hex, 6-32 Thread

- Thread length: 3/16"

Blue P/N = Limited Quantity

Part No.	Product No.	Length	1	10	100	1000
393916	4530-632-B-12	1/4"	\$.73	\$.62	\$.53	\$.45
393924	4532-632-B-12	3/8"	.79	.66	.59	.531
393932	4534-632-B-12	1/2"	.83	.72	.65	.59
393941	4538-632-B-12	3/4"	.78	.70	.56	.42
393959	4542-632-B-12	1"	.78	.70	.56	.42
393968	4546-632-B-12	1-1/4"	.85	.72	.68	.65

## Thumbscrews

Blue P/N = Limited Quantity

## Plain Aluminum

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
394055	7120-A	4-40	5/16"	1/2"	\$1.55	\$1.47	\$1.40	\$1.33
394063	7125-A	6-32	3/8"	9/16"	1.49	1.42	1.35	1.28
394071	7128-A	8-32	3/8"	9/16"	1.65	1.49	1.19	.89
394089	7135-A	10-32	1/2"	11/16"	1.69	1.52	1.22	.92
394097	7138-A	1/4-20	1/2"	3/4"	1.79	1.61	1.29	.97
394100	7140-A	1/4-20	5/8"	7/8"	1.85	1.76	1.67	1.59

## Female-Female Hex Brass Standoffs

- Zinc clear chromate finish

1/4" Hex, 4-40 Thread



Part No.	Product No.	Length	1	10	100	1000
393685	2100-440-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393693	2102-440-B-12	3/8"	.37	.292	.292	.277
393705	2103-440-B-12	7/16"	.71	.64	.512	.384
393714	2104-440-B-12	1/2"	.44	.372	.353	.336
393721	2106-440-B-12	5/8"	.61	.549	.439	.329
393731	2108-440-B-12	3/4"	.69	.58	.55	.52
393749	2112-440-B-12	1"	.81	.69	.65	.62

1/4" Hex, 6-32 Thread

Part No.	Product No.	Length	1	10	100	1000
393757	2100-632-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393764	2102-632-B-12	3/8"	.45	.353	.336	.319
393772	2104-632-B-12	1/2"	.45	.39	.35	.32
393781	2106-632-B-12	5/8"	.61	.512	.486	.365
393799	2108-632-B-12	3/4"	.71	.60	.54	.49
393802	2112-632-B-12	1"	.81	.69	.65	.62
393811	2120-632-B-12	1-1/2"	.77	.65	.62	.59



## Standoffs

## .250" Hex Female

- 6-32 thread

- Brass, zinc plated

NEW

1582399



Minimum order 10 pieces

Part No.	Product No.	Hex Length	10	100	1000
1582399	1451A	.250"	\$.16	\$.149	\$.14
1582401	1451B	.375"	.22	.202	.189

## .250" Hex Male/Female

- 4-40 threaded

1582305: Aluminum, Iridite (clear)

1582330: Brass, zinc plated

1582305

Part No.	Product No.	Hex Length	10	100	1000
1582305	8403	.750"	\$.38	\$.353	\$.331
1582330	8713	.250"	.24	.22	.207

## .250" Hex Male/Female

- 6-32 threaded

- Aluminum, Iridite (clear)



Part No.	Product No.	Hex Length	10	100	1000
1582321	8413	.375"	\$.22	\$.206	\$.193

More Keystone Products on page 321

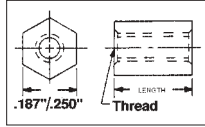
Quantity SAVE

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Hardware visit our  
website today.

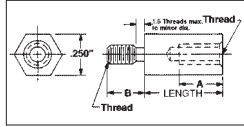
## Aluminum & Brass Threaded Standoffs



Hex  
.187\"/>



.187\"/>



.250\"/>

### .187\"/>

4-40 Thread (Fig. 1) .187\"/>

Part Number	Metal <sup>†</sup>	Hex Length	Pricing			
			10	100	1000	
175636	Brass	.187"	<b>\$.21</b>	<b>\$.15</b>	<b>\$.10</b>	
102795	Brass	.240"	.263	.188	.125	
133613	Alum	.250"	.213	.128	.096	
133640	Alum	.500"	.224	.211	.115	
139791	Alum	.562"	.24	.19	.16	
133648	Alum	.625"	.14	.13	.115	
133656	Alum	.750"	.452	.411	.242	
139185	Alum	1.000"	.44	.39	.34	

### .250\"/>

4-40 Thread (Fig. 1) .250\"/>

Part Number	Metal <sup>†</sup>	Hex Length	Pricing			
			1	10	100	1000
139193	Alum	.250"	*	\$.18	\$.14	\$.095
77501	Alum	.375"	.23	.21	.16	.093
134763	Alum	.437"	.24	.21	.18	.15
108371	Alum	.500"	.29	.255	.173	.102
77519	Alum	.625"	.45	.37	.20	.15
133605	Alum	.750"	.39	.354	.192	.142
139206	Alum	1.000"	.55	.368	.263	.158

### .250\"/>

6-32 Thread (Fig. 1) .250\"/>

Part Number	Metal <sup>†</sup>	Hex Length	Pricing			
			1	10	100	1000
77535	Alum	.250"	\$.29	\$.25	\$.16	\$.092
133592	Alum	.375"	.35	.303	.136	.094
77543	Alum	.500"	.26	.22	.17	.10
77552	Alum	.625"	.29	.26	.19	.14
77570	Alum	.750"	.35	.309	.232	.144
77578	Alum	1.000"	.71	.42	.36	.192
143408	Alum	1.500"	.75	.65	.55	.45
143441	Alum	1.750"	.85	.65	.55	.49

<sup>†</sup> Finish: Iridite (clear)<sup>1</sup> per MIL-C-5541-D;  
 bright tin plate<sup>2</sup>; stainless steel<sup>3</sup>



Hex  
.250\"/>

### .250\"/>

4-40 Thread (Fig. 2) (Thread A: .250"; B: .187")

Part Number	Metal <sup>†</sup>	Hex Length	Pricing			
			1	10	100	1000
77586	Alum	.250"	\$.37	\$.34	\$.246	\$.19
77593	Alum	.375"	.45	.405	.235	.212
111756	Alum	.500"	.55	.451	.369	.205
139214	Alum	.625"	.45	.408	.366	.324
139222	Alum	.75"	.45	.41	.368	.221
139231	Alum	1.00"	.55	.49	.39	.34
128566	Alum	1.25"	.65	.56	.463	.40
166545	Alum	1.50"	.86	.75	.68	.56
618020	Steel <sup>3</sup>	1.50"	.95	.83	.76	<b>.64</b>

### .250\"/>

6-32 Thread (Fig. 2) (Thread A: .375"; B: .250")

Part Number	Metal <sup>†</sup>	Hex Length	Pricing			
			10	100	1000	
133542	Alum	.250"	\$.39	\$.35	\$.21	
133568	Alum	.375"	.41	.37	.23	
77607	Alum	.500"	.34	.31	.25	
77623	Alum	.750"	.417	.374	.30	
77650	Alum	1.000"	.48	.436	.349	
206623	Steel <sup>3</sup>	1.250"	1.67	1.50	1.31	

## Free Tech Support

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**Quantity SAVE**

## PCB Standoff Mounting Hardware

**Lower \$\$\$**

- Snap "on"
- Nylon
- 291987: with thread
- 10 piece minimum

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Dimensions	Holes	10	100	1000
28337	PCST	1.2"L x 0.6"W	0.2" .....	\$.084	\$.048	\$.075
129252	PCST2	0.9"L x 0.4"Dia.	0.2"/0.3" .....	.184	.112	.077
148056	PCST3	0.8"L x 0.5"W	0.1"/0.2" .....	<b>.09</b>	<b>.077</b>	<b>.058</b>
156831	KCS10	0.68"L x 0.32"Dia.	0.14" .....	.111	.088	.095
291961	ACBS-6	0.75"L x 0.5"W	0.1"/0.2" .....	<b>.135</b>	<b>.05</b>	<b>.03</b>
<b>291987</b>	CASE-45-50	0.85"L x 0.3"Dia.	0.2" .....	.14	.09	.05
292015	SCB-6	0.7"L x 0.27"Dia.	0.1"/0.2" .....	.162	.138	.117

## SAE Hardware

• Zinc-plated steel

**Quantity SAVE**



### Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum	
				100	1000
38173	2-56	Std	.250	\$.027	\$.028
40952	4-40	Std	.250	.021	.013
40970	4-40	Std	.375	.015	.018
106810	4-40	Std	.500	.043	.031
106543	6-32	Std	.250	.018	.013
42446	6-32	Std	.375	.019	.014
42438	6-32	Std	.500	.015	.019
106797	8-32	Std	.500	.039	.07

### Hex Nuts

Part Number	Screw Size	Thread	Dia. (inches)	100 piece minimum	1000
38165	2-56	Std	.183	\$.024	\$.016
40943	4-40	Std	.243	.027	.014
42420	6-32	Std	.306	.017	.021
51553	8-32	Std	.334	<b>.02</b>	<b>.015</b>

### Flat Washers

Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
211131	4	.237	<b>\$.019</b>	<b>\$.014</b>
106826	4	.281	.023	.034
106833	6	.373	.025	.023
106842	8	.377	.163	.102

### Internal Tooth Lock Washers

Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
106850	4	.258	\$.007	\$.006
106868	6	.277	.018	.019
106877	8	.323	.035	.032

### Split Lock Washers

Part Number	Screw Size	Dia. (inches)	100 piece minimum	1000
106788	2	.161	\$.024	\$.016
211140	4	.201	<b>.02</b>	<b>.015</b>
40977	4	.242	.02	.015
42463	6	.240	.018	.016
51609	8	.279	.02	.012

## 3M

These durable, pressure sensitive, adhesive-backed urethane bumpers provide many high performance advantages: adhere quickly and stay in place on a variety of surfaces, resist marring and staining on surfaces, and give excellent skid and abrasion resistance.

## Adhesive Rubber Feet

### Bumpon™ Protective Products

Part No.	Product No.	Type	Fig.	Pack	W" x H"	1	10	50
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14 ..	<b>\$6.99</b>	<b>\$5.99</b>	<b>\$5.49</b>
142771	SJ5008BLKC	Black square	2	100	.50 x .12 ....	<b>7.99</b>	<b>5.99</b>	<b>4.99</b>
142682	SJ5018BLKC	Black square	3	100	.50 x .23 ..	<b>10.49</b>	<b>8.99</b>	<b>7.99</b>
126981	SJ5023BLK4	Black square	4	4	.81 x .30 ....	<b>1.95</b>	<b>1.75</b>	<b>1.59</b>
142666	SJ5023BLKC	Black square	4	100	.81 x .30 ..	<b>14.99</b>	<b>12.99</b>	<b>10.99</b>
651891	SJ5201BRN132	Brown hexagon die cut	5	132	.43 x .13 ....	<b>7.25</b>	<b>6.44</b>	<b>5.78</b>
651903	SJ5302CLR96	Clear hemisphere	6	96	.31 x .09 ....	<b>7.95</b>	<b>7.09</b>	<b>5.84</b>
651911	SJ5312CLR56	Clear cylindrical	7	56	.50 x .14 ....	<b>7.95</b>	<b>7.08</b>	<b>6.36</b>
651920	SJ5412WHT56	White cylindrical	7	56	.50 x .14 ....	<b>7.25</b>	<b>6.44</b>	<b>5.78</b>
651938	SJ6553CLR132	Clear hexagonal cone	8	132	.43 x .12 ....	<b>8.15</b>	<b>7.21</b>	<b>6.48</b>



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

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203



## Color Instrumentation Knobs

(1/4" Shaft Diameters)

Quantity SAVE

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft
- All photos on [www.Jameco.com](http://www.Jameco.com)



Fig. 1  
264823



Fig. 2  
265084

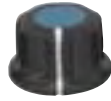


Fig. 3  
265033



Fig. 4  
265228

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	Fig.	1	10	100
264823	CPBTA191A1S6.4BK	Black/black	White	.79 x .77	1	\$.99	\$.84	\$.63
265050	JK-905A	Black/red	White	.58 x .57	2	.78	.70	.69
265069	JK-905B	Black/yellow	White	.58 x .57	2	.92	.73	.66
265077	JK-905C	Black/blue	White	.58 x .57	2	.92	.73	.66
265084	JK-905D	Black/green	White	.58 x .57	2	.79	.63	.57
265017	JK-904A	Black/red	White	.47 x .78	3	1.19	.95	.75
265025	JK-904B	Black/yellow	White	.47 x .78	3	.99	.84	.63
265033	JK-904C	Black/blue	White	.47 x .78	3	1.19	1.01	.76
265041	JK-904D	Black/green	White	.47 x .78	3	.99	.84	.63
265261	CR-MS-5C5-T18	Grey	Grey	.68 x .51	4	.67	.60	.45
265252	CR-MS-4C5-T18	Grey	Green	.68 x .51	4	.78	.67	.61
265244	CR-MS-3C5-T18	Grey	Blue	.68 x .51	4	.79	.67	.61
265236	CR-MS-2C5-T18	Grey	Yellow	.68 x .51	4	.67	.60	.45
265228	CR-MS-1C5-T18	Grey	Red	.68 x .51	4	.74	.66	.495

\* For use with 1/4" knurled shaft



## Aluminum Instrumentation Knobs

1/8" and 1/4" Shaft Diameters

Includes: Set screw for secure attachment

290125:  
Coarse surface for sensitive control; 1/8" shaft dia.



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
290125	42008-1	1	1/8"	Silver	Silver	.500 x .625	\$1.99	\$1.79	\$1.61
162481	K5-1/4S	2	1/4"	Chrome	Silver	.500 x .560	1.19	1.09	.96
162499	K5-1/4B	3	1/4"	Black	White	.500 x .560	1.86	1.59	1.19
138482	KN031	4	1/4"	Alum.	Black	.610 x .650	1.79	1.62	1.43
138502	KN032	4	1/4"	Alum.	Black	.870 x .750	2.34	2.05	1.85
138510	KN033	4	1/4"	Alum.	Black	1.18 x .870	2.49	2.24	1.95

## Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE \$60



100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —
Part No.	Description	Wt. (lbs.)	1	10	
108433	2300 pcs. Hardware kit	7.5	\$67.14	\$62.99	

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## Black Instrumentation Knobs

(1/4" Shaft Diameters)

- Set screw for secure attachment
- RN-112A/113A/114A: numeric dial type



265121



264998



265009



264883



264892



264911



264920



264946



264955



264990



102788



104176



202287



136241



138392

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
265121	JK-906D	Black	White	.58 x .61	\$.68	\$.55	\$.54
264998	JK-902A	Black	White	.69 x 1.31	.89	.67	.62
265009	JK-902B	Black	White	.60 x .95	.59	.55	.51
264920	JK-901A	Black/alum	White	.79 x 1.77	1.21	1.06	.98
264946	JK-901B	Black/alum	White	.64 x 1.29	.78	.60	.56
264955	JK-901C	Black/alum	White	.61 x 1.06	.75	.59	.54
264990	JK-901D	Black/alum	White	.47 x .78	.75	.59	.55
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	.99	.93	.88
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	.99	.93	.88
264911	RN-114A	Black/alum	Numeric	.58 x 1.46	1.19	.99	.95
102788	JK-903C	Black	White	.54 x 1.25	.64	.41	.39
104176	JK-902C	Black	White	.49 x .75	1.04	1.01	1.00
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	.79	.69	.64
136241	GKB-214	Black/alum	White	.52 x .54	.78	.66	.59
138392	41108-1	Black/alum	White	.56 x .85	.85	.65	.59

## Alcoswitch

## Knobs



550580



550678



550740



550432

### Straight Knurl w/ Spinner, No Indicator

Part No.	Product No.	Color	Shaft Size	H" x Dia."	1	10	100
550580	KN1751AS1/4	Natural	1/4"	1.65 x 1.75	\$23.75	\$21.70	\$21.02
550598	KN1751BS1/4	Black	1/4"	1.65 x 1.75	24.25	22.04	21.02

### Straight Knurl w/ Indicator Line

550678	KN900A1/4	Natural	1/4"	.625 x .949	\$9.95	\$9.43	\$8.96
550686	KN900B1/4	Black	1/4"	.625 x .949	9.65	9.31	8.96

### Straight Knurl w/ Pointer and Indicator Line

550740	KPN500B1/8	Black	1/8"	.625 x .500	\$13.75	\$13.11	\$12.45
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### Diamond Knurl w/ Indicator Line

550432	KD500B1/4	Black	1/4"	.630 x .500	\$6.65	\$6.46	\$6.27
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JAMECO ValuePro







## Sonic Transducers and Buzzers

Quantity SAVE




Lower \$\$\$

A Jameco EXCLUSIVE























**Magnetic Transducers** • Applied voltage: 1/2 duty, square wave

Part No.	Cross Ref. No.	Fig.	Operating Volt. (Vp-p/mA)	Volt. Range (Vp-p)	Freq. (Hz)	Sound (dB)	Dimensions	Pricing			
								1	10	100	1000
207917	DB105GFPN 	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	\$1.55	\$1.40	\$1.12	<b>\$0.84</b>
138722	DB111A-PN 	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.55	1.38	1.18	.88
335644	PB-12N23P-12 	3	12/50	9 – 15	2300	85	10mm H x 12mm Dia	2.15	1.94	1.55	<b>1.16</b>
138740	DBX05-PN 	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
106500	SBT-1205 	2	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.35	1.25	1.09
207951	UDX05CPN 	3	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	.99	.92	.83
<b>Other Manufacturers — Great Deals</b>											
673918	SEP-1162	4	20/7	—	4000	80	.28"H x .55"Dia.	\$1.95	\$ .99	\$ .92	\$ .83
673926	SEP2202A	5	3-20/11	3 – 20	3000	85	.64"H x .96"Dia.	1.95	1.79	1.55	1.09
673871	PRT-1205	2	5/40	3 – 8	2400	90	.35"H x .46"Dia.	1.25	1.15	.99	.75
1537408	QMB-01	7	1.5/15	—	2048	80	.53"H x .63"Dia.	1.29	1.19	1.05	.75

### Magnetic Buzzers

207984	TDB01 	6	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia.	\$2.49	\$2.29	\$1.99	\$1.79
76065	TDB05-PN 	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.79	2.69	2.59
207976	TDB12 	6	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.15	1.98	1.68	1.59
<b>Other Manufacturers — Great Deals</b>											
673774	SBT-1612	7	12/40	6-18	2048	85	.53"H x .62"Dia.	\$2.09	\$1.89	\$1.65	\$1.39

### Piezo Buzzers



336276	PT-1250W 	8	3/1.5	2 – 5	1250	85	13mm H x 30mm Dia.	\$1.59	\$1.27	\$1.20	\$1.08
337210	SC628D 	9	6-28/5-18	6 – 28	1900	75	1.28"H x 1.69"Dia.	10.35	8.79	7.04	<b>5.28</b>
336022	PK-27N26W 	10	12/15	3 – 28	2500	90	10mm H x 30mm Dia.	3.65	3.07	2.99	2.69
335505	MAS800 	11	12/50	9 – 12	2800	103	15.2mm H x 26mm Dia.	4.98	4.49	3.59	<b>2.69</b>
335530	MAS806 	11	12/50	5 – 14	2800	103	15.2mm H x 26mm Dia.	6.30	5.68	4.54	3.63
336663	SC105 	9	1-5/3-16	1 – 5	2900	75	1.28"H x 1.69"Dia	10.85	9.77	7.81	<b>5.86</b>
337535	SNP428 	12	4-28/3-16	4 – 28	2900	76	.85"H x 1.64"Dia	9.15	8.24	6.59	<b>4.94</b>
336639	SBM616PU 	13	6-16/3-12	6 – 16	2900	78	.62"H x 1.69"Dia	14.99	13.49	10.79	<b>8.09</b>
123537	11D3240 	14*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.65	3.49
337383	SC628P 	9	6-28/4-16	6 – 28	2900	80	1.84"H x 1.69"Dia	18.39	16.55	13.24	<b>9.93</b>
337359	SC628N 	9	6-28/4-16	6 – 28	2900	90	1.28"H x 1.69"Dia	11.89	10.70	8.56	<b>6.42</b>
32601	11S3240 	14	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia	3.25	3.00	2.64	2.38
336989	SC616N 	9 <sup>C</sup>	6-16/6-22	6 – 16	2900	95	1.28"H x 1.69"Dia	13.65	12.29	9.83	<b>7.37</b>
336997	SC616NJ 	9 <sup>S</sup>	6-16/6-22	6 – 16	2900	95	1.28"H x 1.69"Dia	18.95	17.06	13.65	<b>10.24</b>
335556	MSR320 	15	3-20/3-16	3 – 20	3400	80	.39"H x .91"Dia	2.95	2.69	2.32	2.09
76021	7S3240-LA 	16	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia	6.49	6.10	5.84	5.58
335695	PF-20A35EW 	16 <sup>F</sup>	12/10	3 – 28	3500	95	25mm H x 28mm Dia	4.29	3.66	3.36	3.09
207993	SL15R3120LA 	17	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29	5.99	5.75
336314	PT-2038FW 	5	12/8	3 – 28	3800	85	4.5mm H x 24mm Dia.	1.38	1.31	1.26	1.14
335927	PK-20A38P 	3	12/15	3 – 24	3800	95	18mm H x 23mm Dia.	3.75	3.15	2.93	2.64
335564	MSR516N 	3	5-16/3-14	5 – 16	3850	86	.39"H x .91"Dia.	3.65	3.29	2.63	<b>1.95</b>
138712	32S4120-PN	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	3.45	2.95	2.70	2.50
196357	AL-175	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.99	2.69	2.35	2.06
335855	PK-12N40P 	3	12/10	3 – 15	4100	83	8mm H x 14mm Dia.	3.95	3.16	2.69	2.42
<b>Other Manufacturers — Great Deals</b>											
454521	MSR3205	15	20/16	3 – 20	3400	80	.39"H x .91"Dia.	\$6.99	\$6.29	\$5.69	\$5.09
673900	SEP-1172	18	3-28/7	3 – 28	3300	81	.62"H x 1.27"Dia.	1.95	1.75	1.29	.99

\* Dual tone    <sup>C</sup> = Continuous tone    <sup>S</sup> = Slow pulse    <sup>F</sup> = Fast pulse

### Mechanical/Electromechanical Buzzers

24872	63S109LA 	19	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$2.19	\$1.99	\$1.79
140695	63S1120-LA 	19	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.69	1.54	1.39	1.11

### Piezo Sirens

336188	PS-520 	17	12/200	5 – 15	3000	105	40mm W x 57.5mm D x 44.5mm H	\$9.25	\$8.33	\$6.66	\$5.96
207888	18R3120 	20	12/120	9 – 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	7.19	6.95	6.59	6.35
336225	PS-562	21	12/40	5 – 15	2500/3500	100	16mm H x 42mm Dia	5.05	4.92	4.53	4.13

### Surface Mount Electromechanical Buzzers



335388	AST500 	22	1.5/50	1.2 – 3	2400	85	12.8mm Sq. x 10mm H	\$2.95	\$2.65	\$2.12	<b>\$1.59</b>
335345	ASI301 	22	5/30	4 – 7	2400	90	12.6mm Sq. x 10mm H	2.75	2.48	1.98	<b>1.49</b>
335353	ASI401	22	12/30	8 – 15	2400	90	12.6mm Sq. x 10mm H	1.79	1.61	1.29	<b>.97</b>



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19





Fig. 20



Fig. 21



Fig. 22

 RoHS compliant product     This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    [Details on page 1.](#)

## 1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Mylar diaphragm
- Output SPL: 82 dB
- Nominal input: 0.15W; max. input: 0.2W • Pin spacing: 15mm
- Ideal for PC board mounting
- Impedance: 8Ω
- Frequency range: 700 – 5000Hz
- Pin spacing: 15mm

**Quantity SAVE**

Part No.	Cross Ref. No.	Description	Dimensions	1	10	100
135722	PCM415	Solder leads	1.2"Dia. x 0.5"D	\$2.15	\$1.79	\$1.34

## Speaker Terminals

Make a solid connection with these push-release speaker terminals. Color-coded red/black connections for positive & negative side of speakers, screwmount plates for easy installation.

- Requires 1.92" round cut-out for recessed mounting

Part No.	Description	Size	Price
318641	Round speaker terminals	2.95" diameter	\$52

## Round Ferrite Speakers

- 320135: with 2" lead wires • Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces
- Braided copper voice coil leads • Paper diaphragm

**Quantity SAVE**

For speaker wire, see page 122

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
320362	TRF-050F	2.0 x 0.7	0.25	0.5	8	86	320 – 4000	1.3 x 0.4	\$2.09	\$1.64	\$1.24
135589	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.59	1.33	1.09
320135	C35128A	2.0 x 0.7	0.2	0.4	8	—	—	1.3 x 0.4	1.59	1.35	1.01
10840	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.43	1.07
320354	TR-066F	2.6 x 0.9	0.25	0.5	8	85	440 – 3500	1.3 x 0.4	1.45	1.23	.92



135589 Side



135589 Back

## Square Ferrite Speakers

- Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces • Braided copper voice coil leads • Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135693	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	\$1.65	\$1.48	\$1.32
31959	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.70	2.39	2.15
99996	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.55	2.28	2.02



99996 Side



99996 Back

## Flat Element, Square Piezoelectric Speakers

- Excellent for alarms or other voice uses • Stainless steel diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34025	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	\$2.03	\$1.83	\$1.62
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 – 6000	1.9 x 0.1	2.49	2.25	1.95



34025 Side



34025 Back

## Alnico Speakers

- For computer case use • Paper diaphragm • Wide frequency response • Pre-tinned solder lugs • Large magnet • Impedance: 8Ω

**Quantity SAVE**

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
88411	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	\$1.49	\$1.29	\$1.19
684730	A0202C	1	2.6 x 0.9	0.5	1.0	88	350 – 5000	0.9 x 0.5	1.89	1.69	1.49
135765	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.89	1.69	1.52
111588	B0102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.79	2.26	1.86
135812	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	3.65	3.09	2.79



Fig. 1



Fig. 2



Fig. 3

## Micro Speakers

**Quantity SAVE**

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
355514	GC0201M	1	1.70 x 0.38	0.1	0.2	78	500 – 20000	0.26 x 0.06	\$1.39	\$1.12	\$0.84
355522	GF0271M	2	1.06 x 0.30	0.1	0.2	82	500 – 20000	0.49 x 0.15	2.55	2.17	1.63



Fig. 1



Fig. 2

## Omni-directional Electret Condenser Microphone Cartridges

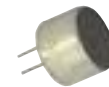
### Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing			
												1	10	100	1000
160979	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	\$0.72	\$0.65	\$0.52	\$0.35
136574	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.59	.54	.49	.44
320178	EM-99	-64 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.27" x .39"	1.49	1.25	.99	.81



160979



136574 & 320178

Commercial  
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135394 - Electrolytic



135271 - LEDs



169578 - Photocells



18294 - Toy Motors



149649 - Fans



55968 - Spacers



319600 - Cabinet

\* "LB" grab bag quantities and weights are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

## Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 asst. ceramic disc capacitors	0.2	\$5.94	\$5.39
135335	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps	1.0	15.54	13.79
135458	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	5.94	5.39
135394	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps radial, axial, snap (photo above)	1.5	13.85	12.29
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	10.45	9.40

## Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1	\$6.85	\$6.15	\$5.51
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1	6.85	6.15	5.51
114446	GB150	50 assorted crystals/oscillators	0.2	9.54	8.34	7.50

## Resistors, Trimmers and Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104	GB116	200 asst. 1/4W resistors (5&10%)	0.1	\$5.49	\$4.95
135351	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	14.95	13.49
18139	GB117	200 asst. 1/2W resistors (5&10%)	0.2	6.85	6.15
18075	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	6.18	4.78
18278	GB174	100 assorted 1/4W & 1/2W single-turn pots (100Ω to 5MΩ assorted values)	0.2	8.34	7.50

## Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	\$8.74	\$8.29
135280	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	19.05	18.90
18024	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 reg.) DIP, TO-3, TO-220	0.6	9.99	8.75
145242	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	22.86	21.75
105620	GB120	100 asst. sockets (DIP IC, PGA)	0.3	6.55	5.95
135386	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0	15.54	13.79

## 5mm x 20mm Fast Acting Fuse Kit

- Voltage rating: 250VAC
- Glass cartridge, silver-end caps
- IEC127 / BS4265 / CEE4 specifications
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

• Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	25
645343	K/FF	\$12.29	\$11.68	\$11.09



## LEDs, Displays and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1 3/4 round and rectangular)	0.1	\$7.29	\$6.61	\$5.93
18323	GB186	500 asst. sizes #18041 LEDs	0.3	19.95	17.95	15.95
135271	GB110LB*	1 lb. (1900 pcs) asst. #18041 LEDs	1.0	45.85	41.77	39.73
18201	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	11.94	8.94	8.03
169578	GB125	100 asst. values photocells	0.2	19.95	18.49	16.95

## Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	\$8.75	\$7.69
135378	GB165LB*	1 lb. (135 pcs) asst. #18235 switches	1.0	18.95	16.95
18294	GB182	5 asst. toy DC motors (1.5-24V)	1.1	5.99	5.49
149649	GB193	5 asst. AC&DC fans (photo above)	4.5	8.75	7.69

## Hardware Assortments

- 2-56
- Screws
- Steel
- 4-40
- Plastic
- Brass
- 6-32
- Nuts
- Lock Washers
- 8-32
- Washers
- Aluminum



Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0	\$7.14	\$6.42	\$5.75
171635	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571 (above)	3.0	15.54	13.79	11.94

## Spacers and Standoffs Assortments

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
166481	GB440	100 asst. 4-40 spacers/standoffs	0.5	\$12.95	\$12.49	\$11.49
166490	GB632	100 asst. 6-32 spacers/standoffs	0.5	16.95	15.49	13.95
55968	GB140	100 asst. 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.3	21.54	19.79	17.94
135423	GB140LB*	1 lb. (310 pcs) same as P/N 55968	1.0	34.95	31.95	28.00

## Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

**\$67.89 Value**



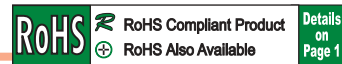
What's your suggestion?

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	3.3	\$48.75	\$42.64
319600	GB197	20 drawer component cabinet	4.7	15.95	13.95

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# DC Brushless Fans



Color Code Legend			
New	Sale	Lower\$	QtySave



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## DC Brushless Fans



Quantity SAVE



249375



354933

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
131247	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	\$10.79	\$10.25	\$9.74	\$9.24
206157	Sunon	KDE0502PFB3-8	5	1.00 x 1.00 x 0.40	1.8	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.76	8.60	6.45
695050	Sunon	GM0502PFB2-8	5	1.00 x 1.00 x 0.40	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	11.29	9.25	8.31	7.72
1585397	Sunon	GM0502PFB1-8	5	1.00 x 1.00 x 0.40	3.5	Ball	130	0.7	UL/CUL	25	6"	9.95	8.95	7.85	6.75
1581249	Sunon	KDE0504PFB3-8	5	1.60 x 1.60 x 0.40	4.6	Ball	70	0.35	UL/CUL	23.5	12"	8.95	7.95	7.15	6.49
196373	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
1581265	Sunon	KDE0504PFS1-8	5	1.60 x 1.60 x 0.40	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.25	4.49
1585442	Sunon	KDE0504PFB2 (MS)	5	1.60 x 1.60 x 0.40	7.0	Ball	140	0.7	None	27	12"	8.95	8.05	6.95	5.95
687789	Sunon	KDE0504PKB3	5	1.60 x 1.60 x 0.80	6.2	Ball	140	0.7	UL/CUL	24	11"	7.95	7.15	6.29	5.29
207061	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.95	6.25	5.59
355493	Sunon	KD0506PTS3	5	2.36 x 2.36 x 1.00	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/ conn.	8.19	7.37	5.89	4.42
212783	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CEN/DE	27	5.9"	10.95	9.86	7.88	5.91
212760	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CEN/DE	25	5.9"	11.95	10.76	9.68	8.06
212741	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CEN/DE	21	5.9"	11.95	10.76	8.60	7.65
191476	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	4.95	4.25	3.61	3.07
210797	Sunon	KD1204PFB3	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418	ReliaPro	JR-DCF1241010S1	12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	3.25	2.88	2.30	1.73
279611	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	5.95	5.29	4.29	3.19
189691	Sunon	KD1204PFS1-8	12	1.60 x 1.60 x 0.40	6.6	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.16	5.72	4.29
212717	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CEN/DE	27	12"	6.65	4.95	4.36	3.95
1585469	Y.S. Tech	FD1240107B-2N	12	1.60 x 1.60 x 0.40	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	6.95	6.25	5.49	4.49
311968	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	3.83	3.06	2.29
290010	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	6.95	6.25	5.49	4.65
213428	Adda	AD0412HB-G76 <sup>1</sup>	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	8.55	8.46	7.92	7.20
1581257	Sunon	KDE1204PFS2-8	12	1.60 x 1.60 x 0.40	7.0	Sleeve	90	1.1	UL/CUL	28	12"	7.95	7.49	6.59	4.95
212725	Sunon	KDE1204PFV1	12	1.60 x 1.60 x 0.40	8.3	Vapo	110	1.4	UL/CUL/TUV/CEN/DE	34.4	12"	6.89	6.22	4.98	3.73
1585434	Sunon	KDE1204PFB1 (MS)	12	1.60 x 1.60 x 0.40	8.5	Ball	110	1.3	UL/CUL	35	12"	7.95	7.15	6.29	5.35
136178	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5.0	Sleeve	110	1.32	UL/CSA	23	9"	2.95	2.64	2.38	1.78
195899	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.16	5.72	4.29
279620	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
249375	Adda	AD0412HB-C56 <sup>2</sup>	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2"	8.95	8.06	6.44	4.83
687754	Sunon	KDE1204PKSX-8	12	1.60 x 1.60 x 0.80	9.5	Sleeve	90	1.1	—	28	11"	8.49	7.59	6.79	5.95
206165	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	17"	8.95	8.06	6.44	4.83
1585291	Sunon	GM1204PKVX-A	12	1.60 x 1.60 x 0.80	10.8	Vapo	130	1.60	UL/CUL/CSA	27.5	5"	8.95	8.05	6.95	5.95
212688	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CEN/DE	29	12"	6.59	5.99	5.49	5.16
297959	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	7.65	5.66	4.86	4.43
139602	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	9.15	8.24	6.59	4.94
1585426	Sunon	KDE1205PHB2 (MS)	12	2.00 x 2.00 x 0.60	13	Ball	80	1.0	UL/CUL/CE	29.5	9"	8.75	7.85	6.95	5.85
1585418	Sunon	KDE1206PFS3-8	12	2.36 x 2.36 x 0.40	11.3	Sleeve	70	0.8	UL/CUL	28.5	12"	6.95	6.49	5.75	4.59
354933	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/VDE/CE	29	12"/3 leads	7.99	7.17	5.75	4.31
687800	Sunon	KDE1206PFS1-8	12	2.36 x 2.36 x 0.40	16.5	Sleeve	120	1.4	UL/CUL/TUV	34.5	11"	7.99	7.19	6.29	5.29
195945	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	7.49	6.69	5.45	4.15
1585400	Sunon	KDE1206PHB3	12	2.36 x 2.36 x 0.60	15	Ball	60	0.7	UL/CSA/CE	26	12"	8.75	7.89	7.09	6.39
662602	Panaflo	FBA06T12H-1BS <sup>3</sup>	12	2.36 x 2.36 x 0.60	16.6	Sleeve	145	1.74	UL/CSA	32	12"/3 leads	9.49	6.95	6.49	5.79
249069	Jamicon	JF06125B1H-000-243	12	2.36 x 2.36 x 0.60	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	9.09	8.18	6.95	5.22
685951	Sunon	KDE1206PHB2	12	2.36 x 2.36 x 0.60	18	Ball	90	1.1	UL/CSA/TUV/CE	31.5	11"	8.75	7.89	7.09	6.39
687771	Sunon	KDE1206PHS1	12	2.36 x 2.36 x 0.60	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	10" w/ conn.	7.95	7.15	6.49	5.49
1537141	Sunon	KDE1206PHB1	12	2.36 x 2.36 x 0.60	21	Ball	150	1.8	UL/CUL/CE	37.5	12"/3 leads	7.95	7.15	6.49	5.95
175046	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.29	5.05	3.79
144161	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.49	8.49	6.99	5.99
189595	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	5.94	5.36	4.30	3.23
237075	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	5.95	5.36	4.82	3.62
689240	Sunon	KDE1206PTB1(M) <sup>3</sup>	12	2.36 x 2.36 x 1.00	22.5	Ball	170	2.0	UL/CSA/TUV/CE	34	12"	6.15	5.59	4.95	4.39
136143	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	5.36	4.29	3.22
662645	Panaflo	FBA06A12U-1BS <sup>3</sup>	12	2.36 x 2.36 x 1.00	20.5	Sleeve	270	2.52	UL/CSA	37	12"/3 leads	7.49	6.95	5.95	4.49
102947	Jamicon	JF0625S1H	12	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	7.79	7.01	5.61	4.22
150422	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	7.29	6.49	5.49	4.79
1536923	Jamicon	JF0625B1M	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.76	UL/CUL/TUV/CE	33.6	10"	6.95	6.49	5.75	4.95
195911	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.73
689207	Sunon	KDE1206PTB3	12	2.36 x 2.36 x 1.00	16	Ball	70	.80	UL/CSA/TUV/CE	26	12"	5.95	5.35	4.79	4.29
395508	Sanyo	109R0612S402	12	2.36 x 2.36 x 1.00	23	Ball	170	2.04	UL/CSA/TUV	33	6"	5.95	5.36	4.28	3.21
401269	Delta	AFB0812LB	12	3.15 x 3.15 x 0.60	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	9.35	6.81	6.40	4.80
109082	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141921	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.95	5.75	5.55
1537301	Panaflo	FBA08A12L	12	3.15 x 3.15 x 1.00	24	Sleeve	68	0.82	UL/CSA	21	11.5"	7.95	7.49	6.59	5.25

<sup>1</sup> 213428: ATX PC type    <sup>2</sup> 249375: Speed sensor    <sup>3</sup> 662602/662645: Locked rotor alarm sensor

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

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NEW

Quantity SAVE

DC Brushless Fans (Continued)

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
16994	Various	FAN7315SL <sup>1*</sup>	12	3.15 x 3.15 x 1.00	25-40	Sleeve	120-200	1-2	UL/CSA	25	4-12"	\$8.34	\$7.52	\$6.00	\$4.50
75361	Various	FAN6315BL <sup>1*</sup>	12	3.15 x 3.15 x 1.00	25-40	Ball	120-200	1-2	UL/CSA	25	4-12"	5.95	5.36	4.28	3.21
688597	NMB	3110GL-B4W-B19	12	3.15 x 3.15 x 1.00	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn.	6.95	6.25	5.49	4.69
234895	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	8.19	6.39	5.89	5.49
286926	Toyo	USTF082512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	8.35	7.52	6.02	4.52
154289	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	7.49	6.79	5.99	4.99
123530	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	8.34	7.52	6.00	4.50
265578	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35	5"	5.29	4.76	3.81	2.86
1537387	Sunon	KD1208PTB2	12	3.15 x 3.15 x 1.00	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	8.95	8.09	7.49	6.95
662661	Panaflo	FBA0812H1BS <sup>2</sup>	12	3.15 x 3.15 x 1.00	39.6	Sleeve	250	2.08	UL/CSA	32	12"/3 leads	7.95	6.95	5.49	4.49
1585477	Sunon	KD1208PTS1-13	12	3.15 x 3.15 x 1.00	40	Sleeve	160	1.90	UL/CUL/TUV/CE	33	12"	5.95	5.49	4.95	4.49
206181	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.14	6.47	5.82	5.22
355401	ReliaPro	JR-DCF128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.89	5.71	5.38	5.11
1581273	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	12"	6.95	6.49	5.95	5.25
323897	Mechatronics	F8025E12B1 <sup>3</sup>	12	3.15 x 3.15 x 1.00	46	Ball	240	2.88	UL/CUL/TUV	32	3"/3 leads	6.99	5.09	4.79	4.45
421526	Panasonic	FBA08A12U-1AZ	12	3.15 x 3.15 x 1.00	47	Sleeve	360	4.32	UL/CSA	38.2	11"	6.69	6.02	4.82	3.61
75441	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV	32	10"	5.46	4.89	4.41	3.95
196023	Jamicon	JF0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	6.05	5.43	4.88	4.32
154641	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190984	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	8.70	7.83	6.27	5.48
162739	NMB (Smart Fan)	3610KL-04W-B56 <sup>†</sup>	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.95	7.16	5.72	4.29
689215	Sunon	KDE1209PTBX-6A	12	3.63 x 3.63 x 1.00	56	Ball	360	4.3	UL/CUL/CE	39	11"	7.95	7.16	5.72	4.29
102963	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	7.16	5.72	4.29
171410	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29	5.05	3.79
689231	Sunon	KDE1212PTS3-6A	12	4.68 x 4.68 x 1.00	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	8.49	7.65	6.69	5.49
227901	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	13.14	11.82	10.67	9.59
363848	Mechatronics	E1225H12B	12	4.68 x 4.68 x 1.00	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	12.95	11.66	10.99	9.33
689856	Sunon	KDE1212PTB1-6A	12	4.68 x 4.68 x 1.00	90	Ball	400	4.8	UL/CUL/TUV/CE	44.5	12" w/ conn.	12.95	11.59	10.49	8.95
163619	NMB (Smart Fan)	4710NLO12P535P0 <sup>†</sup>	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	None	38.5	12"	5.25	4.73	3.80	2.85
1537133	Delta	WFB1212HH	12	4.68 x 4.68 x 1.00	95.4	Ball	610	7.3	UL/CSA/CE	42.5	4" w/ conn.	10.95	10.49	9.75	7.99
1585389	Japan Servo	CNDC12B4C-016	12	4.68 x 4.68 x 1.50	99	Ball	380	4.6	UL/CSA/TUV	40	12"	13.95	12.49	10.95	9.29
686516	Adda	AD1212HB-F51	12	4.68 x 4.68 x 1.50	104.8	Ball	500	6	UL/CUL/CSA/TUV/CE	42.8	11" w/ conn.	13.95	12.49	10.95	7.95
1537221	Sunon	KDE1212PMB-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CUL/CE	42	12" w/ conn.	12.95	12.49	10.95	9.25
1537467	Comair	JO1287X	12	6.77 x 5.90 x 2.00	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12"/3 leads	69.95	62.95	56.95	52.95
687826	Sunon	KDE2404PKB2	24	1.60 x 1.60 x 0.80	7	Ball	40	1.0	UL/CUL/TUV	29	11"	7.95	7.15	6.49	5.29
687818	Sunon	KDE2406PHB3	24	2.36 x 2.36 x 0.60	15.2	Ball	50	1.2	UL/CUL/TUV	26.5	11"	8.49	7.59	6.59	5.49
421518	Panasonic	FBA06T24H	24	2.36 x 2.36 x 0.60	16.6	Sleeve	110	1.99	UL/CSA	32	11"	8.09	7.03	6.31	5.70
140661	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	None	31	2"	5.95	5.39	4.34	3.24
174108	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	5.79	5.21	4.69	4.22
189861	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
687797	Sunon	KDE2408PTS3-6	24	3.15 x 3.15 x 1.00	29.4	Sleeve	60	1.5	None	24.5	4" w/ conn.	8.95	7.95	6.95	5.75
290029	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	7.42	6.59	5.79
1581071	Pabst	8124K	24	3.15 x 3.15 x 1.50	35	Ball	125	3.0	UL	39	12"	29.95	26.95	23.95	19.95
662653	Panaflo	FBO8A24M1A	24	3.15 x 3.15 x 1.00	32.1	Sleeve	100	2.4	UL/CSA	28	11.5"	7.95	5.95	4.95	4.49
131611	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.59	8.64	7.77	6.99
189886	NMB	3610KL-05MR-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.29
695042	Sunon	KDE2409PTB1-6	24	3.63 x 3.63 x 1.00	51	Ball	140	3.4	None	37	12"	8.95	8.49	7.49	6.39
174094	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	7.95	7.16	6.57	5.99
687762	Sunon	KDE2412PTB3-6A	24	4.68 x 4.68 x 1.00	69	Ball	130	3.1	CE	35.5	11"	10.95	9.85	8.79	7.49
249287	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	83	Ball	500	12	None	41.1	7.5"	12.39	11.15	8.92	6.69
694516	Jamicon	JF1238B2LR130-065R	24	4.68 x 4.68 x 1.50	84.5	Ball	130	3.12	UL/CSA/TUV/CE	33.8	9.5"	16.95	15.49	13.25	11.95
153411	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.75	8.65	7.33
694444	Jamicon	JF1238S2MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	15.95	14.35	12.95	11.49
694524	Jamicon	JF1238B2MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	16.95	15.49	13.25	11.95
694532	Jamicon	JF1238B2HR130-065R	24	4.68 x 4.68 x 1.50	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8	9.5"	16.95	15.49	13.25	11.95
689063	EBM	W2G115-AG75-85	48	5.00 x 5.00 x 1.50	155	Ball	310	15	UL/CUL	52	10"/3 leads	49.95	44.95	39.39	33.95

<sup>1</sup> 16994: Replacement for PC/XT computer power supply fan    <sup>2</sup> 662661: Locked rotor alarm    <sup>3</sup> 323897: Speed sensor    <sup>†</sup> Temperature control: 162739 (50°C, 3 leads); 163619 (35°C)    \* Mfr. & specifications may vary

DC Brushless Blowers

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
422801	Sunon	GB1205PKV1-8AY	12	2.00 x 2.00 x 0.80	5.7	Vapo	120	1.44	UL/CSA/CE/TUV	35	12" leads	\$14.15	\$11.37	\$10.67	\$10.07
644842	Evercool	EC7530M12C-B	12	2.83 x 3.00 x 1.16	10.8	Sleeve	170	2.04	UL/CUL/CE/TUV	30	14" w/ conn.	16.05	12.05	11.27	9.99
614951	Delta	BFB0721H	12	2.98 x 2.98 x 1.20	11.3	Ball	60	0.72	UL/CSA/VDE/CE	38	12" leads	11.79	10.61	8.49	6.37
644893	Evercool	EC9733M12C-B	12	3.83 x 3.64 x 1.27	19.42	Sleeve	200	2.4	CE	30	14" w/ conn.	20.79	15.62	13.72	12.94
645028	Evercool	EC9733H12C-B	12	3.83 x 3.64 x 1.27	23.6	Sleeve	260	3.12	CE	33	14" w/ conn.	20.15	14.16	13.30	9.98
213567	Nidec	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5"/3 leads	20.34	18.32	14.66	11.00

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    [Details on page 1.](#)

Color Code Legend  
New Sale Lower\$ QtySave

# DC Brushless Fans (Continued)



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave

Call for additional OEM PRICING – we carry major manufacturers.



- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller

- Agency approved
- Low power consumption
- Low acoustical noise rating

Lower \$\$\$



695682



695691



For more Comair Rotron DC Fans visit [www.Jameco.com](http://www.Jameco.com)

Part Number	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise dBA	Connection (Leads)	Pricing		
											1	10	100
695789	032604 (CR0405HB-G70)	5	1.57 x 1.57 x 0.40	6.8	Ball	244	0.95	None	25.0	12"	\$8.75	\$8.03	\$7.06
695797	032622 (CR0412HB-C50)	12	1.57 x 1.57 x 0.80	6	Ball	100	1.2	None	31.9	12"	8.75	7.63	7.06
695711	031156 (FS12B3)	12	2.36 x 2.36 x 1.00	18	Ball	142	1.7	UL/CSA/TUV/CE	33.9	12"	32.55	25.81	19.72
695703	031101 (WT12B3)	12	3.15 x 3.15 x 1.26	15	Ball	420	5.1	UL/CUL/TUV	52.2	12"	33.35	32.95	32.55
695682	030615 (ST12B3)	12	3.15 x 3.15 x 1.26	34	Ball	280	3.4	UL/CSA/TUV	40.9	12"	18.95	18.74	18.52
695623	028868 (MD12B2)	12	4.69 x 4.69 x 1.54	110	Ball	500	6	UL/CSA/TUV	50.0	Terminals	42.65	41.04	39.43
695658	028885 (MD12B5)	12	4.69 x 4.69 x 1.54	110	Ball	500	6	UL/CSA/TUV	50.0	12"	37.99	37.71	37.45
695771	032489 (MC12B3)	12	4.73 x 4.73 x 1.26	102	Ball	660	7.9	UL/CSA/TUV	47.8	12"	20.69	20.55	20.41
695720	031157 (FS24B3)	24	2.36 x 2.36 x 1.00	18	Ball	80	1.9	UL/CSA/TUV/CE	33.9	12"	25.25	20.11	19.73
695674	030614 (ST24K3)	24	3.15 x 3.15 x 1.26	40	Ball	220	5.3	UL/CSA/TUV	44.2	12"	21.05	19.87	18.69
695615	028866 (MD24B1)	24	4.69 x 4.69 x 1.54	110	Ball	250	6	UL/CSA/TUV/CE	50.0	12"	42.19	40.82	39.44
695631	028869 (MD24B2)	24	4.69 x 4.69 x 1.54	110	Ball	250	6	UL/CSA/TUV/CE	50.0	Terminals	42.19	40.83	39.45
695666	030572 (MC24B3)	24	4.73 x 4.73 x 1.26	102	Ball	280	6.7	UL/CSA/TUV	47.8	12"	20.75	20.58	20.41
695691	031090 (JQ24B4)	24	6.75 x 5.90 x 2.00	235	Ball	850	20.3	UL/CSA/TUV	54.3	Terminals	69.29	67.19	65.18
695640	028870 (MD48B2)	48	4.69 x 4.69 x 1.54	110	Ball	125	6	UL/CSA/TUV	50.0	Terminals	42.19	40.82	39.44

## AC Tube Axial Fans



- Rating 115 & 220VAC @ 50-60Hz
- Agency approved fans

- Low acoustical noise rating
- Ball and sleeve bearings



695463



695594

For more Comair Rotron AC Fans visit [www.Jameco.com](http://www.Jameco.com)

Part Number	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise dBA	Connection (Leads)	Pricing		
											1	10	100
695535	028286 (SU2B1)	115	3.14 x 3.14 x 1.65	34	Ball	150	11	UL/CSA/VDE	40.3	12"	\$28.15	\$26.55	\$24.97
695578	028410 (SU2B5)	115	3.14 x 3.14 x 1.65	34	Ball	150	11	UL/CSA/VDE	40.3	Terminals	28.15	26.56	24.97
695560	028316 (MX2A3)	115	4.69 x 4.69 x 1.54	110	Sleeve	180	15	UL/CSA/VDE	47.6	Terminals	24.85	22.45	22.05
695586	028422 (MX2B3)	115	4.69 x 4.69 x 1.54	110	Ball	180	15	UL/CSA/VDE	47.6	Terminals	36.69	34.61	32.55
695501	028027 (MU2B1)	115	4.71 x 4.71 x 1.50	105	Ball	160	14	UL/CSA	45.1	Terminals	34.85	32.87	30.91
695498	028021 (MU2A1)	115	4.71 x 4.71 x 1.50	105	Sleeve	160	14	UL/CSA	45.1	Terminals	23.59	22.26	20.94
695607	028454 (BT2B1)	115	4.75 x 4.75 x 1.60	22	Ball	170	14.5	UL/CSA/TUV/CE	—	Terminals	38.85	34.70	30.57
695519	028245 (MR2B3)	115	6.15 x 5.92 x 2.00	235	Ball	260	31	UL/CSA/VDE	56.6	Terminals	59.09	55.76	52.44
695527	028254 (PT2B3)	115	6.75 dia. x 2.0 thick	235	Ball	260	31	UL/CSA/VDE	54.0	Terminals	59.99	57.53	52.43
695738	031842 (MA2B3)	115	6.75 x 5.92 x 2.17	300	Ball	360	50	UL/CUL/TUV/CE	56.5	Terminals	70.75	70.09	69.74
695439	020169 (TNE2C)	115	6.90 x 6.90 x 4.40	330	Ball	530	56	UL/CSA/TUV	65.4	12"	86.39	79.99	75.95
695455	020174 (TNE2A)	115	6.90 x 6.90 x 4.40	330	Ball	530	56	UL/CSA/TUV	65.4	Terminals	86.55	81.41	76.80
695463	020188 (CLE2L2)	115	10 dia. x 3.5 thick	550	Ball	480	34	UL/CSA/TUV/CE	49.2	24"	57.55	57.00	56.83
695471	020189 (CLE2T2)	115	10 dia. x 3.5 thick	550	Ball	480	34	UL/CSA/TUV/CE	49.2	Terminals	71.95	64.95	59.95
695594	028423 (MX3B3)	230	4.69 x 4.69 x 1.54	110	Sleeve	90	16	UL/CSA/VDE	47.6	Terminals	36.65	34.60	32.55
695551	028309 (MR77B3)	230	6.75 x 5.92 x 2.00	235	Ball	140	30	UL/CSA/TUV/CE	56.6	Terminals	59.35	56.03	52.69
695746	031844 (MA77B3)	230	6.75 x 5.92 x 2.17	300	Ball	180	—	UL/CUL/TUV/CE	56.6	Terminals	70.69	70.19	69.74
695447	020172 (TNE3A)	230	6.90 x 6.90 x 4.40	330	Ball	260	59	UL/CSA/TUV	65.4	Terminals	86.55	81.48	76.80
695480	020191 (CLE3T2)	230	10 dia. x 3.5 thick	250	Ball	550	—	UL/CSA/TUV/CE	49.2	Terminals	59.25	58.85	58.55



### Fan Guards

Compatible with  
Comair DC and AC  
Fans (above)

- All guards and filters fit all fans by matching the size dimension.



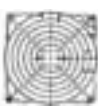
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696651



696571



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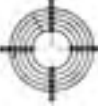
696677



696669/696634



696589



696597

Part No.	Product No.	Description	1	10	100
696685	572621	2.09" dia., steel nickel chrome finish	\$2.85	\$2.52	\$2.33
696651	551147	4.68" dia.	2.55	2.31	2.07
696571	476042	4.31" dia., steel zinc plated	1.75	1.49	1.38
696642	550481	4.68" dia.	.95	.90	.87
696677	552934	4.62" dia., steel zinc plated	2.55	2.31	2.07
696669	551199	6.75" dia., steel zinc plated	3.69	3.26	3.02
696634	550272	6.75" dia., steel zinc plated	4.05	3.64	3.36
696589	476136	8.74" dia., steel nickel chrome	6.29	5.68	5.26
696597	476323	8.25" dia., steel zinc plated	5.15	4.66	4.31

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)



212600



275792

Call for additional OEM PRICING – we carry major manufacturers.



- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 226 CFM

**NEW**





































**Quantity SAVE**



206309



209365

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
213867	Fulltech 	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704	Toyco	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.64
146078	Common Wealth 	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	13.99	12.99	11.99	10.99
300557	Fulltech 	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300258	Fulltech 	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	10.19	9.18	8.87	8.57
300582	Fulltech 	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	10.55	9.47	9.15	8.83
300303	Fulltech 	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	11.75	11.05	10.69	10.32
300329	Fulltech 	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300600	Fulltech 	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	13.39	12.04	11.26	10.67
300389	Fulltech 	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
297933	Fulltech 	UF80A11SWH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	12" leads	10.19	9.18	8.99	8.57
75460	Sunon 	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	19.14	17.27	15.54	13.98
75433	Sunon 	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.55	11.29	10.19	9.15
303467	Sunon 	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	17.39	16.69	15.07	12.75
124063	Sunon 	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303408	Sunon 	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	16.45	15.35	14.25	13.15
303415	Common Wealth 	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.26	12.20	9.46
303482	Fulltech 	UF12A11SWL	115	4.68 x 4.68 x 1.50	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.85	11.54	10.77	10.23
303361	Fulltech 	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	13.89	12.46	11.62	11.05
1585371	Sunon	SP103A-1123LBL	115	4.68 x 4.68 x 1.50	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	12.95	11.65	10.25	8.95
300792	Fulltech 	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111895	Common Wealth 	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	16.74	15.11	13.62	12.23
106585	Common Wealth 	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	16.89	15.22	12.93	9.70
16935	Common Wealth 	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	17.89	16.12	14.49	13.06
212600	Fulltech 	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.39	14.22	13.03	11.84
275792	Sunon	SP101A-1123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CUL/CE	50	Terminals	13.45	11.21	9.88	9.19
206309	Adda 	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	UL/CUL/CE	48	Terminals	14.95	13.00	10.76	8.96
102884	Sunon 	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	15.59	14.54	13.50	12.46
1585320	Sunon	A1123-HBL	115	4.68 x 4.68 x 1.50	117	Ball	250	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.75	9.95
108725	Fulltech 	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	30.55	27.48	21.98	19.56
212582	Fulltech 	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	27.45	26.91	24.19	23.68
189684	Fulltech 	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	33.65	30.30	24.23	21.52
1585311	Sunon	A1175-HBT	115	6.75 x 5.90 x 2.00	239	Ball	230	27	UL/CUL/TUV/CE		Terminals	54.95	49.95	43.95	34.00
355629	Fulltech 	UF-80A23-BTH	220	3.15 x 3.15 x 1.50	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	11.39	10.26	9.75	9.26
100918	Sunon 	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	11.09	8.89	8.00	6.78
209365	Bi-Sonic 	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	14.89	13.41	11.17	10.60
302244	Rotron 	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	14.95	13.49	11.85	8.89
303459	Sunon 	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102892	Sunon 	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65
1585346	Sunon	A2123-HBL	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.75	9.95
1585338	Sunon	A2123-HBT	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	Terminals	15.35	14.35	12.65	10.75

## Fan Guards and Filters

**Quantity SAVE**

Compatible with DC and AC Fans – pages 208-211

- All guards and filters fit all fans by matching the size dimension. Example: P/N 300557 fan (3.15") matches P/N 31923 metal guard (3.15").

Part No.	Description	1	10	100	250
123502	1.60" metal (chrome) guard	\$ .49	\$ .44	\$ .376	\$ .283
120037	2.36" metal (chrome) guard	\$ .79	\$ .62	\$ .42	\$ .315
687666	2.36" steel (anodized) guard	.95	.85	.74	.59
31923	3.15" metal (chrome) guard	.79	.65	.51	.44
123511	3.63" metal (chrome) guard	\$ .99	\$ .89	.79	.62
25734	4.68" metal (chrome) guard	1.09	.98	.88	.79

Part No.	Description	1	10	100	250
695068	4.68" steel (black) guard	\$1.09	\$ .98	\$ .88	\$ .79
695076	5.00" metal (chrome) guard	1.59	1.39	1.25	1.06
138562	3.15" plastic guard w/ mesh	1.59	1.45	1.29	1.09
229665	3.63" plastic guard w/ mesh	1.75	1.55	1.25	.95
196817	4.68" plastic guard w/ mesh	2.15	1.71	1.53	1.38
138579	3.15" alum. washable filter	2.95	2.66	2.12	1.59
130105	4.68" alum. washable filter	3.49	3.19	2.75	2.49



123502



138579/130105

## Fan Power Cords: 24" Straight and Right-Angle

- Cord type: SPT-1 (2) conductor black
- Voltage rating: 300V
- Temperature: 60°C
- Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564	Straight socket cord	24"	\$ .99	\$ .88	\$ .70	\$ .65
104192	90° angle socket cord	24"	1.05	.98	.81	.73
69562	Comair Rotron 90° angle socket cord	24-26"	1.39	1.23	1.15	1.12



28564



104192

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 30-Watt Open Frame, Low Leakage

### MPS-30 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- Working temperature: -10°C to +50°C
- See [www.Jameco.com](http://www.Jameco.com) for specs.
- Load regulation: ±1.0%
- Line regulation: ±1.0%
- Inrush current: 35A @ 120VAC
- Leakage current: 0.3mA @ 240V
- Isolation voltage: 4000VAC
- Mounting holes: 3.74"L x 2.02"W x 0.12"Dia.
- 2.9 watts/in<sup>3</sup> maximum
- Mating connector: P/N 104723 pg 149
- Three-year warranty • Weight: 0.3 lbs.
- Size: 4.0"L x 2.59"W x 0.98"H



The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA @240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over voltage. They are UL and TUV approved, and carry a CE mark for use worldwide.

## 45 & 65-Watt Open Frame, Low Leakage

### MPS-45 & MPS-65 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- Isolation voltage: 4000VAC
- 2.9 watts/in<sup>3</sup> max.
- Voltage adjustment: 10%
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specs.
- Leakage current: 0.3mA @ 240V
- Inrush current: 20A @ 120VAC
- Line regulation: ±1.0%
- Load regulation: ±2.0%, except 221058, 221146: ±3.0%
- Soft-start circuit, limiting AC surge current
- Mating connector: P/N 104731, pg 149
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- Three-year warranty • Weight: 0.6 lbs.
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H



The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for battery-applications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and overvoltage.

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
220987	Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	\$35.29	\$31.70	\$26.61
221058	Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	36.35	29.71	23.17
221066	Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	36.35	30.89	23.17
221082	Mean Well	MPS-45-15	+15V@0-3A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	36.35	30.89	23.17
221112	Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	36.35	30.89	23.17
221146	Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	37.39	33.65	30.29
221154	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	37.39	33.65	30.29
221162	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	37.39	33.65	30.29
221189	Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	37.39	33.65	30.29

\* Primary Output

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### 3-Conductor Power Cords

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C

Cord w/ Pigtail (Fig. 1) Hospital Grade (Fig. 2)

See pgs 244 & 245 for more Power Cords

**With Pigtail**

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
38009	17237	.31	1	6'	Gray	18/3	SVT	\$2.87	\$2.58	\$2.07	\$1.55
37997	17236	.30	1	6'	Black	18/3	SVT	3.35	2.79	2.54	2.39

**With Hospital Grade Male (green dot)**

132011	17006G	.82	2	10'	Gray	16/3	SJT	\$9.95	\$8.96	\$8.05	\$7.25
115078	17006	.84	2	10'	Black	16/3	SJT	9.95	8.98	8.05	7.27

\* Thermoplastic Cord Jacket Type: SVT (Round): Light service; SJT (Round): Junior service

**Medical Table-Top  
AC-to-DC  
Power Supplies**  
See page 234

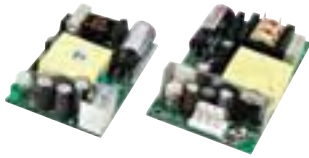


## Ultraminiature 5 to 20-Watt Power Supplies

- 100% full burn-in test
- Universal AC input/full range

- Three year warranty
- Ultra miniature size and lightweight

- UL/CUL/TUV/CE
- Short-circuit/overload/overvoltage/overtemperature protection



### 5-Watt NFM-5000 Series

• Size: 2.28"L x 1.77"W x 0.75"H • Inrush current: 25A @ 115VAC • Pin-mount

### 10-Watt NFM-0100 Series





















• Size: 2.56"W x 1.77"L x 0.87"H • Inrush current: 25A @ 115VAC • Pin-mount

### 15-Watt NFM-1500 Series



• Size: 2.76"L x 1.89"W x 0.87" • Inrush current: 30A @ 115VAC • Pin-mount

### 20-Watt NFM-0200 Series

• Size: 3.0"L x 2.0"W x 0.76" • Inrush current: 30A @ 115VAC • Chassis-mount  
 • Mating connector: P/Ns 463435 & 463443, pg 150

Jameco Part No.	Product No.	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
		Voltage@Current (min-max)	Power				1	10	25
694962	NFM-05-3.3 	+3.3V@0-1.25A	4.13W	±1.5%	±1.0%	80	\$22.99	\$20.99	\$18.99
694971	NFM-05-5 	+5V@0-1A	5.0W	±1.5%	±1.0%	80	22.99	20.99	18.99
694989	NFM-05-12 	+12V@0-0.42A	5.04W	±0.5%	±0.5%	150	22.99	20.99	18.99
695009	NFM-05-15 	+15V@0-0.33A	4.95W	±0.5%	±0.5%	150	22.99	20.99	18.99
694997	NFM-05-24 	+24V@0-0.23A	5.52W	±0.5%	±0/-5%	240	22.99	20.99	18.99
695084	NFM-10-3.3 	+3.3@0-2.5A	8.25W	±1.0%	±1.0%	80	26.99	24.99	22.99
695092	NFM-10-5 	+5V@0-2A	10.0W	±1.0%	±1.0%	80	26.99	24.99	22.99
695105	NFM-10-12 	+12V@0-0.85A	10.2W	±0.5%	±0.5%	150	26.99	24.99	22.99
695113	NFM-10-15 	+15V@0-0.67A	10.05W	±0.5%	±0.5%	150	26.99	24.99	22.99
695121	NFM-10-24 	+24V@0-0.42A	10.08W	±0.5%	±0.5%	240	26.99	24.99	22.99
695148	NFM-15-3.3 	+3.3V@0-3.5A	11.55W	±1.0%	±1.0%	80	30.39	27.99	25.99
695130	NFM-15-5 	+5V@0-3A	15.0W	±1.0%	±1.0%	80	30.39	27.99	25.99
695156	NFM-15-12 	+12V@0-1.25A	15.0W	±0.5%	±0.5%	150	30.39	27.99	25.99
695164	NFM-15-15 	+15V@0-1A	15.0W	±0.5%	±0.5%	150	30.39	27.99	25.99
695172	NFM-15-24 	+24V@0-0.63A	15.12W	±0.5%	±0.5%	240	30.39	27.99	25.99
695181	NFM-20-3.3 	+3.3V@0-4.5A	14.85W	±1.0%	±1.5%	80	33.99	31.99	29.99
695199	NFM-20-5 	+5V@0-4.4A	22.0W	±1.0	±1.5%	80	33.99	31.99	29.99
695201	NFM-20-12 	+12V@0-1.8A	21.6W	±0.5%	±0.5%	150	33.99	31.99	29.99
695210	NFM-20-15 	+15V@0-1.4A	21.0W	±0.5%	±0.5%	150	33.99	31.99	29.99
695228	NFM-20-24 	+24V@0-0.92A	22.08W	±0.5%	±0.5%	240	33.99	31.99	29.99

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Cross Ref. No.	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
		Voltage@Current (min-max)	Power				1	10	25
300484	OFM-1502 	+12V@0-1.25A	15W	±1%	±0.3	150	\$40.85	\$35.95	\$27.00
300521	OFM-0202	+12V@0-1.8A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300530	OFM-0203	+15V@0-1.4A	20W	±1%	±0.3%	150	43.69	37.15	27.85
300548	OFM-0205 	+24V@0-0.92A	20W	±0.5%	±0.2%	240	49.39	46.19	43.85



## 25-Watt Open-Frame Power Supplies

Enclosed Power Supplies on pages 217-224.

### PS-25 & PD-25 Series: Single & Dual Outputs













- 100% full-load burn-in
- Universal AC input
- Inrush current: 40A @ 120VAC
- Working temp.: -10°C to +60°C
- Size: 4.20"L x 2.40"W x 1.10"H
- Two-year warranty





Part Number	Load Reg. (±%)	Line Reg. (±%)	Part Number	Load Reg. (±%)*	Line Reg. (±%)*	Part Number	Load Reg. (±%)*	Line Reg. (±%)*
212362	2.5	0.5	216769	1.0	0.3	212338	1.0	0.5
212354	2.0	0.5	212346	0.5	0.2	212330	1.0	0.5
392826	2.0	0.5	392818	0.5	0.2	394250	4.0	2.0
148604	1.0	0.3	212312	4.0	1.0	148690	3.0	0.5
392810	1.0	0.3						

\* Primary Output



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
212362	Mean Well 	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	\$28.15	\$26.19	\$24.25
212354	Mean Well 	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	20.95	20.18	19.43
392826	Mean Well 	PS-25-7.5	+7.5V@0-3.3A	24.8W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
148604	Mean Well 	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	20.45	19.67	18.94
392810	Mean Well 	PS-25-13.5	+13.5V@0-1.9A	25.7W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	18.26	17.58
216769	Mean Well 	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	17.45	16.56	15.74
212346	Mean Well 	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	20.29	19.56	18.83
392818	Mean Well 	PS-25-27	+27V@0-0.9A	24.3W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	18.26	17.58
212312	Mean Well 	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	16.96	12.72
212338	Mean Well 	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	21.25	20.48	18.80
212330	Mean Well 	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
394250	Mean Well 	PD-2503	+3.3V@0.2-5A; +5V@0.1-4A	24.9W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
148690	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	24.83	22.99	19.99

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# 15 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 15 to 65-Watt Open-Frame Power Supplies

Enclosed Power Supplies  
on pages 217-224.

• 100% full burn-in test

• Universal AC input



PSA15



PS-65

### 15 & 25-Watt PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation:  $\pm 2.0\%$
- Isolation voltage: 3,000VAC
- Inrush current: 30A @ 120VAC
- Size: 4.33"L x 1.57"W x 0.91"H (except 230536: 3.6"L x 2.5"W x 1.1"H)
- Line regulation:  $\pm 1.0\%$
- Voltage adjustment: 5% (PSA15 only)
- Working temp.: 0° to +40°C
- One-year warranty



### 45-Watt PSA45 Series: Triple Outputs

- Load regulation:  $\pm 2.0\%$
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- One-year warranty
- Line regulation:  $\pm 2.0\%$
- Working temp.: 0° to +50°C
- Weight: 0.9 lbs.



Call for special versions and large quantities

### 45-Watt PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- Load regulation:  $\pm 3.0\%$  (except 213728/213720/374362:  $\pm 2.0\%$ )
- Line regulation:  $\pm 1.0\%$
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.06"H
- Two-year warranty
- Voltage adjustment: 10%
- Working temp.: -10°C to +60°C



### 65-Watt PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- Load & Line regulation:  $\pm 1.0\%$  to  $\pm 4.0\%$
- Voltage adjustment: 10%
- Working temp.: -10°C to +60°C
- Size: 5.0"L x 3.0"W x 1.65"H
- Inrush current: 20A @ 120VAC
- Two-year warranty
- Weight: 0.6 lbs.



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
229042	Phihong	PSA15LN3-050	+5V@0-3A	15.0W	90-264@47-63	50	UL/CUL/TUV/CE	\$17.95	\$16.95	\$16.19
229060	Phihong	PSA15LN3-120	+12V@0-1.25A	15.0W	90-264@47-63	120	UL/CUL/TUV/CE	17.95	16.95	16.19
230536	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25.0W	90-264@47-63	50	UL/CUL/TUV/CE	25.15	22.63	20.31
229122	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	32.09	28.91	26.00
229140	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	30.25	27.65	26.29
217332	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	22.95	19.51	14.63
213728	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	28.59	20.89	17.59
374353	Mean Well	PS-45-15	+15V@0-3.5A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213720	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
374362	Mean Well	PS-45-27	+27V@0-1.95A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	25.99	18.99	15.99
194862	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194871	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	20.99	17.99
88402	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	32.35	24.94	22.56
201938	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	31.05	26.58	22.14
148639	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
374380	Mean Well	PS-65-13.5	+13.5V@0-5.4A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
216751	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	28.55	24.43	20.35
148647	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	31.59	26.68	23.20
201946	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	28.49	24.43	20.35
201954	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
194889	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
194897	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.69	27.71	24.25
216734	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	38.79	30.02	26.56
216726	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
215707	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	26.45	23.80	21.40
394222	Mean Well	PT-6503	+3.3V@0-7A; +5V@0.2-10A; +12V@0-1.2A	61.8W	90-264@47-63	50	UL/CUL/TUV/CE	51.35	43.65	32.74

\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
218510	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	5.0x3.0x1.2	4.6x2.6x0.16	100	2.0	0.2	UL/CSA/DE/CE	\$41.99	\$38.99	\$35.96
210841	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	17.95	15.29	11.44
664270	Power-One	MAP40-3100	+5V@3A; +12V@2A; -12V@0.3A	40.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	0.2	UL/CSA/TUV/CE	39.95	34.95	29.95
622539	Phihong	PSA-4034	+5.1V@5-3A; +15V@2-2A; -15@0.5A	40.0W	90-264@47-63	5.0x3.0x1.2	4.5x2.6x0.16	50	—	—	UL/CSA/DE/CE	24.95	21.21	15.95
673934	Martek	PVI-50-46BUB	+5V@6.5; +3.3@2.5; +12@0.8; -12@0.5	57.0W	100-240@50-60	8.1x3.2x1.5	—	—	—	—	UL/CUL/CSA/TUV/CE	15.95	13.95	11.49
226211	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/DE/CE	29.95	25.46	19.09

\* Primary Output

Blue Part No. = Limited Quantity Available

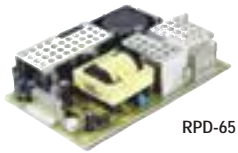
Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

## 65 to 110-Watt Open-Frame Power Supplies

Enclosed Power Supplies  
on pages 217-224.

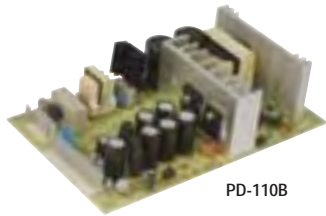
- 100% full burn-in test



RPD-65



LPP-100



PD-110B

### 65-Watt RPD-65 & RPT-65 Series: Dual & Triple Outputs

- Short-circuit/overload/overvoltage protection
- Input: 90-264VAC @ 47-440Hz; 127-370VDC
- Working temp.: -20°C to +60°C
- Mating connectors: P/Ns 236152 & 236187, pg 149
- Line regulation:  $\pm 1.0\%$
- Load regulation:  $\pm 2.0\%$
- Size: 5.0"L x 2.0"W x 1.1"H
- Two-year warranty
- 60W free air convection; 77W with 18 CFM forced air
- 65W free air convection; 80W with 18 CFM forced air



### 75-Watt LPS-75 Series: Single Outputs

- Universal AC input
- Line regulation:  $\pm 1.0\%$
- Voltage adjustment: 10%
- Working temp.: -20°C to +60°C
- Built-in remote ON/OFF
- Load regulation:  $\pm 2.0\%$
- Inrush current: 24A @ 120VAC
- Size: 8.74"L x 2.16"W x 1.18"H
- Two-year warranty
- Weight: 0.5 lbs.



### 100-Watt LPS-100 & LPP-100 Series: Single Output

- Auto-switch AC input
- Line regulation:  $\pm 0.5\%$
- Working temp.: -10°C to +60°C
- No minimum load required
- Voltage adjustment: 10%
- Size: 8.74"L x 2.44" x 1.25"W
- Three-year warranty
- Weight: 0.8 lbs.
- LPS-100 Series:
  - Load regulation:  $\pm 1.5\%$ , except 173463:  $\pm 0.5\%$
  - Inrush current: 30A @ 120VAC
- LPP-100 Series: with Power Factor Correction
  - 4.4 watts/in<sup>2</sup> maximum
  - Load regulation:  $\pm 0.5\%$
  - Isolation voltage: 3000VAC
  - Inrush current: 40A @ 120VAC
  - Leakage current: 2.0mA @ 240V
  - Mating connector: P/N 215950, pg 149



### 110-Watt PD-110B Series: Dual Outputs

- Universal AC input
- Load and line regulation:  $\pm 1.0\%$
- Short-circuit/overload/overvoltage protection
- Size: 7.0"L x 4.3"W x 1.8"H
- Cooling by free air convection
- Ripple and noise: 100mVp-p
- Working temperature: -10°C to +50°C



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Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
668781	Mean Well	RPD-65C	+5V@0-1.5A; +12V@0-5.8A	60.0W	90-264@47-440	120	UL/CUL/TUV/CE/CB	\$35.35	\$33.19	\$31.35
668799	Mean Well	RPD-65D	+5V@0-1.5A; +24V@0-2.9A	60.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	35.35	33.19	31.35
668801	Mean Well	RPT-65E	+5V@0-1.5A; +12V@0.18-5.8A; -5V@0-0.7A	62.5W	90-264@47-440	120	UL/CUL/TUV/CE/CB	37.65	35.45	33.45
668810	Mean Well	RPT-65F	+5V@0-1.5A; +12V@0.18-5.8A; -12V@0-0.7A	66.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	37.65	35.45	33.45
668828	Mean Well	RPT-65G	+5V@0-1.5A; +12V@0-0.7A; +24V@0.09-2.9A	66.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	37.65	35.45	33.45
244727	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	34.95	29.95	25.95
173472	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	55.59	50.81	45.04
374345	Mean Well	LPS-100-13.5	+13.5V@0-7.5A	101.3W	88-264@47-63	100	UL/CUL/TUV/CE	54.55	49.84	44.18
173463	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	53.49	48.87	43.32
216710	Mean Well	LPS-100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	45.01	33.76
216689	Mean Well	LPP-100-12	+12V@0-8.5A	102.0W	85-264@47-63	100	UL/CUL/TUV/CE	57.39	51.65	46.49
204611	Mean Well	LPP-100-24	+24V@0-4.2A	100.8W	85-264@47-63	150	UL/CUL/TUV/CE	64.95	55.21	41.41
375056	Mean Well	PD-110B	+5V@0.5-5A; +24V@0.5-3.5A	109.0W	100-264@47-63	100	UL/CUL/TUV/CE	65.35	61.38	58.31

\* Primary Output

Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty												Quantity SAVE		
Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
171731	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A	65.0W	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	\$9.95	\$8.46	\$6.35
692377	Autec	UPS65-1002	+5V@0.5-3.5A; +12V@0.1-4A	65.0W	90-260@47-63	6.0x3.5x1.5	4.8x3.2x0.16	50	2.0	0.5	UL/CSA/TUV	15.95	14.35	12.59
235088	Artesyn	NLP65-7629	+5V@0-7A; +12V@0-2.5A -12V@0.8A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/CE	28.35	25.75	23.45
229850	IPD Power	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	22.95	19.51	14.63
218915	Artesyn	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/VDE	59.59	52.73	47.46
202876	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100-230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	19.95	16.96	12.72
237024	Lite-On	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	19.95	16.96	12.72
670813	Intl. Power	PM110-13A	+15V@0-7.5A	110.0W	85-264@47-63	7.0x4.3x1.9	6.5x3.8x0.16	15	—	—	UL/CSA/TUV	59.95	50.99	38.22
219011	Artesyn	NLP150L-96S5	+5.1V@1-22A	112.2W	90-264@47-63	6.8x3.8x1.3	6.5x3.5x0.16	50	2.0	2.0	UL/CSA/VDE/CE	79.55	71.56	64.40
219002	Artesyn	NLP150L-96S8	+24V@0.15-4.6A	110.4W	90-264@47-63	6.8x3.8x1.3	6.5x3.5x0.16	240	2.0	2.0	UL/CSA/VDE/CE	92.75	83.49	75.14
218940	Artesyn	NLP110-9693	+3.3V@0.2-13A; +5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/VDE	78.15	70.31	63.28
645298	Mean Well	PQ-100DTR	+5V@5A; +12V@2A; +24V@2A; -12V@3A	103.0W	100-264@47-63	7.0x4.3x1.8	6.5x3.8x0.16	80	1.0	1.0	—	53.94	45.90	34.38

\* Primary Output

Blue Part No. = Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

Color Code Legend  
 New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

# 125 to 350W Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 125 to 350-Watt Open-Frame Power Supplies w/ Power Factor Correction

Enclosed Power Supplies on pages 217-224.

- 100% full burn-in test
- Line regulation:  $\pm 0.5\%$
- Three-year warranty



PPS-125



LPP-150



USP-350

### 125-Watt PPS-125 & PPT-125 Series: Single & Triple Outputs

- Universal AC input
- Size: 5.0"L x 3.0"W x 1.4"H
- Load regulation:  $\pm 1.0\%$
- Working temp.: -40°C to +85°C
- Load regulation:  $\pm 3.0\%$
- Working temp.: -20°C to +60°C



### 150-Watt LPP-150 Series: Single Output

- Voltage adjustment: 10%
- Auto-switch AC input
- Load regulation: 213681, 375065 & 392771:  $\pm 1.0\%$ ; 213672, 216646 & 392789:  $\pm 0.5\%$
- Mating connectors: P/N 215950 & 215968, pg 149
- Working temp.: -10°C to +60°C
- Size: 8.74"L x 2.95"W x 1.61"H



### 200-Watt PPS-200 Series: Single Output

- High efficiency up to 90% (typical)
- PWM control & regulated
- Free air convection for 150W; 20.5 CFM forced air for 200W
- Load regulation:  $\pm 1.0\%$
- Short-circuit/overload/overvoltage protection
- Mating connectors: P/N 236152, pg 149
- Working temp.: -20°C to +70°C
- Size: 5.0"L x 3.0"W x 1.4"H



### 225 & 350-Watt U Bracket Type USP-225 & USP-350 Series: Single Output

- Active AC surge current limiting
- Load regulation:  $\pm 1.0\%$
- Short-circuit/overload/overvoltage/overtemperature protection
- Size: 8.0"L x 4.0"W x 1.5"H
- Free air convection for 150W and forced air convection for 225W
- Mating connectors: P/N 236152 or 463435 (input), pg 150; P/N 303651 (output), pg 151
- Working temp.: -20°C to +65°C
- Size: 9.3"L x 4.0"W x 1.5"H
- Free air convection for 300W; 23.5 CFM forced air for 350W
- Working temp.: -10°C to +65°C



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
374089	Mean Well	PPS-125-12	+12V@0-10.5A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	\$93.99	\$79.84	\$74.45
374097	Mean Well	PPS-125-15	+15V@0-8.4A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	102.95	92.07	82.86
301429	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
301487	Mean Well	PPT-125B	+5V@1-14.4A; +12V@3-3.8A; -12V@0.05-0.63A	124.5W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	88.02	66.02
213681	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
392771	Mean Well	LPP-150-13.5	+13.5V@0-11.2A	151.2W	85-264@47-63	100	UL/CUL/TUV/CE	69.95	63.95	53.95
375065	Mean Well	LPP-150-15	+15V@0-10.0A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
213672	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	68.45	64.60	61.37
392789	Mean Well	LPP-150-27	+27V@0-5.6A	151.2W	85-264@47-63	150	UL/CUL/TUV/CE	69.95	53.89	47.29
216646	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	74.59	70.41	66.89
668705	Mean Well	PPS-200-5	+5V@0-36A	180.0W	90-264@47-63	80	UL/CUL/TUV/CE	109.89	99.69	94.15
668713	Mean Well	PPS-200-12	+12V@0-16.6A	199.2W	90-264@47-63	100	UL/CUL/TUV/CE	105.89	99.69	94.15
668721	Mean Well	PPS-200-15	+15V@0-13.3A	199.5W	90-264@47-63	100	UL/CUL/TUV/CE	158.95	149.65	141.35
668730	Mean Well	PPS-200-24	+24V@0-8.3A	199.2W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65	141.35
668748	Mean Well	PPS-200-27	+27V@0-7.4A	199.8W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65	141.35
694452	Mean Well	USP-225-3.3	+3.3V@0-40A	132.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	129.69	123.75	117.56
694461	Mean Well	USP-225-5	+5V@0-40A	200.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25	100.88
694479	Mean Well	USP-225-12	+12V@0-18.7A	224.4W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25	100.88
694487	Mean Well	USP-225-15	+15V@0-15A	225.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25	100.88
694495	Mean Well	USP-225-24	+24V@0-9.4A	225.6W	90-264@47-63	150	UL/CUL/TUV/CE/CB	126.99	121.25	100.88
694508	Mean Well	USP-225-48	+48V@0-4.7A	225.6W	90-264@47-63	250	UL/CUL/TUV/CE/CB	129.69	123.75	117.56
694399	Mean Well	USP-350-3.3	+3.3V@0-70A	231.0W	90-264@47-63	80	UL/CUL/TUV/CE	203.59	197.49	191.55
694401	Mean Well	USP-350-5	+5V@0-70A	350.0W	90-264@47-63	80	UL/CUL/TUV/CE	203.59	197.49	191.55
694410	Mean Well	USP-350-12	+12V@0-29.2A	350.4W	90-264@47-63	100	UL/CUL/TUV/CE	203.59	197.49	191.55
694428	Mean Well	USP-350-15	+15V@0-23.4A	351.0W	90-264@47-63	100	UL/CUL/TUV/CE	203.59	197.49	191.55
694436	Mean Well	USP-350-24	+24V@0-14.6A	350.4W	90-264@47-63	150	UL/CUL/TUV/CE	203.59	197.49	191.55
668756	Mean Well	USP-350-48	+48V@0-7.3A	300.0W	90-264@47-63	150	UL/CUL/TUV/CE	203.59	197.49	191.55

\* Primary Output



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## 25-Watt Enclosed

### RS-25 Series: Single Output

- New smaller design: 3.0" x 2.0" x 1.1"
- 3.66 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short-circuit/overload/overvoltage protection
- 105°C output capacitor
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- Mating connector: 103588, pg 174
- High operating temperature up to 70°C
- Three-year warranty



## 25-Watt Enclosed

### S-25 Series: Single Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- 1.2 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: 103588, pg 174
- Working temperature: -10°C to +60°C
- Mounting hardware: use P/Ns 222122, 222156, 222173 & 222164 (see web)
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



## 35-Watt Enclosed

### RS-35 & RD-35 Series: Single & Dual Output

- New smaller design: 3.9" x 3.2" x 1.4"
- 2 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short-circuit/overload/overvoltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- Mating connector: 103588, pg 174
- High operating temperature up to 70°C
- Three-year warranty



## 40-Watt Enclosed

### S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- 1.6 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +60°C
- Mounting hardware: use P/Ns 222122, 222156 & 222173 (see web)
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



For PC Power Supplies, see page 258.

Open-Frame Power Supplies on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693193	Mean Well	RS-25-3.3	+3.3V@0-6A	19.8W	80	2	0.5	UL/CUL/TUV/CE/CB	\$29.09	\$25.23	\$23.28
323282	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
323300	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
323302	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323311	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
693206	Mean Well	RS-25-48	+48V@0-0.57A	27.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
123247	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	41.95	33.71	30.35
123255	Mean Well	S-25-12	+12V@0-2.1A	25.2W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
123263	Mean Well	S-25-15	+15V@0-1.7A	25.5W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
123272	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
639214	Mean Well	RS-35-3.3	+3.3V@0-7A	23.1W	80	2	0.5	UL/CUL/TUV/CE/CB	36.15	31.36	29.79
323329	Mean Well	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	37.25	31.36	29.79
323337	Mean Well	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.89	30.99	28.13
323345	Mean Well	RS-35-15	+15V@0-2.4A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.89	30.99	28.13
323353	Mean Well	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.99	30.99	28.13
693222	Mean Well	RS-35-48	+48V@0-0.8A	38.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	36.99	30.99	28.13
323362	Mean Well	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.53
323380	Mean Well	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.52
123290	Mean Well	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
123298	Mean Well	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
202140	Mean Well	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
123319	Mean Well	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
201989	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	54.95	46.71	35.02
201997	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90
202009	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	50.45	42.52	38.28





\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
689848	Potrans	1M150C05-1M	+5V@0-3.0A	15.0W	100	0.5	1.0	UL/CUL/TUV/CE	\$22.95	\$20.49	\$18.95
692422	Volgen	SX15U-05S	+5V@3.0A	15.0W	100	—	—	UL/CSA	19.95	17.95	16.15
689805	Potrans	1M041C05-1M	+5V@0-8.0A	40.0W	75	—	—	UL/CUL/TUV/CE	38.95	35.00	29.95
689830	Potrans	1M041C12-1M	+12V@0-3.5A	42.0W	100	—	—	UL/CUL/TUV/CE	38.95	35.00	29.95
689792	Potrans	1M041C24-1M	+24V@0-1.8A	43.0W	100	—	—	UL/CUL/TUV/CE	38.95	35.00	29.95

\* Primary Output

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# 50 to 75-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 50-Watt Enclosed

**RS-50, RD-50, RT-50, & RQ-50 Series:**  
Single, Dual, Triple & Quad Output

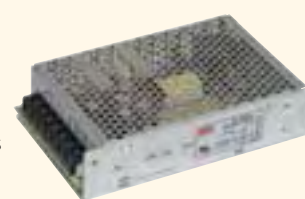
- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 60-Watt Enclosed

**S-60, D-60, T-60 & Q-60 Series:**  
Single, Dual, Triple & Quad Outputs

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 65-Watt Enclosed

**RD-65, RT-65 & RQ-65 Series:**  
Dual, Triple & Quad Outputs

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 75-Watt Enclosed with Power Factor Correction

**RS-75 Series: Single Output**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



For PC Power Supplies, see page 258.

Open-Frame Power Supplies  
on pages 212-216.

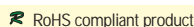
Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Load Noise (mV p-p)*	Line Reg. (±%)*	Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693231	Mean Well	RS-50-3.3	+3.3V@0-10A	33.0W	80	2	0.5	UL/CUL/TUV/CE/CB	\$40.19	\$34.30	\$32.59
323388	Mean Well	RS-50-5	+5V@0-10A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323396	Mean Well	RS-50-12	+12V@0-4.2A	50.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323409	Mean Well	RS-50-15	+15V@0-3.4A	51.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323417	Mean Well	RS-50-24	+24V@0-2.2A	52.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
693249	Mean Well	RS-50-48	+48V@0-1.1A	52.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323425	Mean Well	RD-50A	+5V@0.3-6A; +12V@0.3-3A	54.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.55	37.62	35.74
323433	Mean Well	RD-50B	+5V@0.3-6A; +24V@0.2-2A	53.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323442	Mean Well	RT-50A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0.5-5A	46.5W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	39.20	37.24
323460	Mean Well	RT-50B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.55	39.60	37.62
323468	Mean Well	RT-50C	+5V@0-5A; +15V@0.2-2A; -15V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323476	Mean Well	RT-50D	+5V@0.5-5A; +12V@0.1-1A; +24V@0.2-1.5A	51.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	39.20	37.24
323484	Mean Well	RQ-50B	+5V@0.5-6A; +12V@0.2-1.5A; -5V@0-1A; -12V@0-1A	45.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.55	40.59	38.56
323492	Mean Well	RQ-50D	+5V@0.5-6A; +12V@0.2-1.5A; +24V@0.1-1A; -12V@0-1A	53.4W	80	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	40.18	37.24
123327	Mean Well	S-60-5	+5V@0-12A	60.0W	120	1	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123335	Mean Well	S-60-12	+12V@0-5A	60.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123343	Mean Well	S-60-15	+15V@0-4A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123352	Mean Well	S-60-24	+24V@0-2.5A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123458	Mean Well	D-60A	+5V@0.3-4A; +12V@0.2-3A	56.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	58.25	46.75	42.08
123466	Mean Well	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	58.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	58.25	46.75	42.05
123482	Mean Well	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A	61.0W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	49.82	44.84
123491	Mean Well	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	62.5W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	48.82	44.84
147046	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0W	100	0.5	0.5	UL/CUL/CE/CB	68.59	57.09	51.39
323505	Mean Well	RD-65A	+5V@0.3-8A; +12V@0.2-4A	66.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323513	Mean Well	RD-65B	+5V@0.3-8A; +24V@0.2-3A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.55	40.59	38.56
323522	Mean Well	RT-65A	+5V@0.5-8A; +12V@0.2-3.5A; -5V@0-1A	66.1W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323540	Mean Well	RT-65B	+5V@0.5-8A; +12V@0.2-3.5A; -12V@0-1A	64.6W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323548	Mean Well	RT-65C	+5V@0.5-8A; +15V@0.2-3A; -15V@0-1A	65.5W	80	1	0.5	UL/CUL/TUV/CE/CB	48.05	40.35	38.33
323556	Mean Well	RT-65D	+5V@0.5-8A; +12V@0.1-1A; +24V@0.2-2A	68.0W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323564	Mean Well	RQ-65B	+5V@0.5-8A; +12V@0.2-3A; -5V@0-1A; -12V@0-1A	62.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323572	Mean Well	RQ-65D	+5V@0.5-8A; +12V@0.2-3A; +24V@0.1-1.5A; -12V@0-1A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.95	41.26	39.24
693257	Mean Well	RS-75-3.3	+3.3V@0-15A	49.5W	80	2	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323581	Mean Well	RS-75-5	+5V@0-12A	60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323599	Mean Well	RS-75-12	+12V@0-6A	72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	44.65	37.83	36.69
323602	Mean Well	RS-75-15	+15V@0-5A	75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323620	Mean Well	RS-75-24	+24V@0-3.2A	76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	44.65	37.83	36.69
693265	Mean Well	RS-75-48	+48V@0-1.6A	76.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31

\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Load Noise (mV p-p)*	Line Reg. (±%)*	Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
689784	Potrans	1M051C05-0M	+5V@10.0A	50.0W	—	—	—	UL/CUL	\$34.95	\$31.00	\$27.95
689768	Potrans	FS-06005-0M	+5V@0-12.0A	60.0W	120	—	—	UL/CUL/CE	45.95	41.00	35.95
689821	Potrans	1M051C12-1M	+12V@0-4.2A	50.0W	100	—	—	UL/CUL/TUV/CE	34.95	31.00	27.95
689813	Potrans	1M061C05-0M	+12V@0-5.0A	60.0W	120	—	—	UL/CUL/TUV/CE	47.95	43.00	37.95

\* Primary Output



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## 75-Watt Enclosed with Power Factor Correction

SP-75 & TP-75B Series: Single & Triple Output

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 85-Watt Enclosed with Power Factor Correction

RD-85, RT-85 & RQ-85 Series: Dual, Triple & Quad Output

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Enclosed with Power Factor Correction

CLG-100 Series: Single Output

- Universal AC input/full range
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

**NEW**



## 100-Watt Enclosed

RS-100 Series: Single Output

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Enclosed

S-100F Series: Single Output

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



For PC Power Supplies, see page 258.

Open-Frame Power Supplies on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693370	Mean Well	SP-75-3.3	+3.3V@0-15.0A	49.5W	80	1	0.5	UL/CUL/TUV/CE/CB	\$78.45	\$74.48	\$71.49
194830	Mean Well	SP-75-5	+5V@0-15A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	71.94	64.76	58.28
693388	Mean Well	SP-75-7.5	+7.5V@0-10.0A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
194838	Mean Well	SP-75-12	+12V@0-6.3A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
693396	Mean Well	SP-75-13.5	+13.5V@0-5.6A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
194846	Mean Well	SP-75-15	+15V@0-5A	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
194854	Mean Well	SP-75-24	+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
693409	Mean Well	SP-75-27	+27V@0-2.8A	75.6W	100	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
216805	Mean Well	SP-75-48	+48V@0-1.6A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
375049	Mean Well	TP-75B	+5V@1.5-10A; +12V@0.2-4A; -12V@0-0.6A	75.8W	100	3	1	UL/CUL/TUV/CE/CB	86.15	81.18	77.12
323628	Mean Well	RD-85A	+5V@2-10A; +12V@0.3-5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.65	56.84	54.00
323636	Mean Well	RD-85B	+5V@2-10A; +24V@0.3-2.5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.65	56.84	54.00
323644	Mean Well	RT-85A	+5V@2-10A; +12V@0.3-4A; -5V@0-1A	84.5W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.74	58.65
323652	Mean Well	RT-85B	+5V@2-10A; +12V@0.3-4A; -12V@0-1A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.74	58.65
323661	Mean Well	RT-85C	+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.74	58.65
323679	Mean Well	RT-85D	+5V@2-10A; +12V@0.1-1A; +24V@0.3-2.5A	90.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.74	58.65
323686	Mean Well	RQ-85B	+5V@2-10A; +12V@0.3-4A; -5V@0-1A; -12V@0-1A	80.7W	80	1	0.5	UL/CUL/TUV/CE/CB	52.35	47.10	42.39
323695	Mean Well	RQ-85D	+5V@2-10A; +12V@0.3-4A; +24V@0.1-1.5A; -12V@0-1A	84.0W	80	1	0.5	UL/CUL/TUV/CE/CB	74.49	62.72	59.58
1585805	Mean Well	CLG-100-12	+12V@0-5A	60.0W	150	2	1	UL/CUL/TUV/CE	99.90	111.17	91.17
1585856	Mean Well	CLG-100-15	+15V@0-5A	75.0W	150	2	1	UL/CUL/TUV/CE	99.90	111.17	91.17
1585864	Mean Well	CLG-100-20	+20V@0-4.8A	96.0W	150	2	1	UL/CUL/TUV/CE	99.90	111.17	91.17
1585872	Mean Well	CLG-100-24	+24V@0-4A	96.0W	150	2	1	UL/CUL/TUV/CE	99.90	111.17	91.17
1585733	Mean Well	CLG-100-27	+27V@0-3.55A	95.85W	150	2	1	UL/CUL/TUV/CE	127.50	111.17	91.17
1585750	Mean Well	CLG-100-36	+36V@0-2.65A	95.4W	150	2	1	UL/CUL/TUV/CE	127.50	111.17	91.17
1585768	Mean Well	CLG-100-48	+48V@0-2A	96.0W	200	2	1	UL/TUV/CE	127.50	111.17	91.17
693273	Mean Well	RS-100-3.3	+3.3V@0-20.0A	66.0W	80	2	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
323708	Mean Well	RS-100-5	+5V@0-16A	80.0W	80	1	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
323716	Mean Well	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	62.09	53.35	48.50
323724	Mean Well	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323732	Mean Well	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
693290	Mean Well	RS-100-48	+48V@0-2.3A	110.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
201962	Mean Well	S-100F-5	+5V@0-20A	100.0W	100	1	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
374919	Mean Well	S-100F-7.5	+7.5V@0-13.5A	101.0W	125	0.5	0.5	UL/CUL/TUV/CE/CB	66.95	49.90	44.90
123386	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	125	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
212451	Mean Well	S-100F-15	+15V@0-6.7A	100.5W	125	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
201971	Mean Well	S-100F-24	+24V@0-4.5A	108.0W	150	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
216793	Mean Well	S-100F-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14

\* Primary Output

 Blue Part No. = Limited Quantity Available



[www.Jameco.com](http://www.Jameco.com)

For more power supplies from Condor visit our website today.

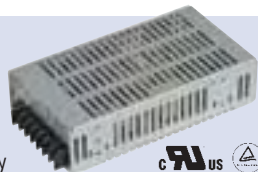
# 100 to 150-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 100-Watt Enclosed with Power Factor Correction

**SP-100 & TP-100 Series:  
Single & Triple Outputs**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 120-Watt Enclosed

**D-120, T-120 & Q-120 Series:  
Dual, Triple & Quad Outputs**

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 125-Watt Enclosed

**RD-125, RT-125 & RQ-125 Series:  
Dual, Triple & Quad Output**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 150-Watt Enclosed

**RS-150 Series: Single Output**

- New smaller design: 7.8" x 3.9" x 1.5"
- 100% full-load burn-in
- Three-year warranty



## 150-Watt Enclosed

**S-150 Series: Single Output**

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



For PC Power Supplies, see page 258.

Open-Frame Power Supplies  
on pages 212-216.

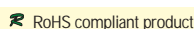
Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693441	Mean Well	SP-100-3.3	+3.3V@0-20.0A	66.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$90.19	\$85.26	\$81.85
194791	Mean Well	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
693450	Mean Well	SP-100-7.5	+7.5V@13.5A	101.3W	100	1	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
194803	Mean Well	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	89.25	84.39	81.85
693476	Mean Well	SP-100-13.5	+13.5V@0-7.5A	101.3W	100	0.5	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
212433	Mean Well	SP-100-15	+15V@0-6.7A	100.5W	100	0.5	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
194812	Mean Well	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	92.39	78.53	58.90
394170	Mean Well	SP-100-27	+27V@0-3.8A	102.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
693484	Mean Well	SP-100-48	+48V@0-2.1A	100.8W	250	3	1	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
213778	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	111.15	94.08	70.56
132410	Mean Well	D-120A	+5V@2-12A; +12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	79.75	66.45	58.93
132397	Mean Well	D-120B	+5V@2-6A; +24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	79.75	66.45	58.93
301509	Mean Well	T-120B	+5V@2-12A; +12V@0.5-5A; -12V@0.2-1A	121.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	78.69	64.09	56.58
301517	Mean Well	T-120C	+5V@2-12A; +15V@0.5-5A; -15V@0.2-1A	117.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	78.69	64.09	56.58
132389	Mean Well	Q-120B	+5V@2-11A; -5V@0.2-1A; +12V@0.5-4A; -12V@0.2-1A	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	81.55	64.99	57.99
132371	Mean Well	Q-120D	+5V@2-8A; +24V@0.2-2A; +12V@0.2-2A; -12V@0.2-1A	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	81.55	64.99	57.99
323741	Mean Well	RD-125A	+5V@2-15A; +12V@0.5-10A	130.9W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323759	Mean Well	RD-125B	+5V@2-10A; +24V@0.4-5A	133.4W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323767	Mean Well	RT-125A	+5V@2-15A; +12V@0.5-6A; -5V@0.1-1A	131.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323775	Mean Well	RT-125B	+5V@2-15A; +12V@0.5-6A; -12V@0.1-1A	132.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323783	Mean Well	RT-125C	+5V@2-15A; +15V@0.5-6A; -15V@0.1-1A	132.5W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323792	Mean Well	RT-125D	+5V@2-15A; +12V@0.1-2A; +24V@0.4-4A	136.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323804	Mean Well	RQ-125B	+5V@2-12A; +12V@0.5-4.5A; -5V@0.1-1A; -12V@0.1-1A	120.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
323812	Mean Well	RQ-125D	+5V@2-12A; +12V@0.5-4A; +24V@0.1-2.5A; -12V@0-1A	124.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
693329	Mean Well	RS-150-3.3	+3.3V@0-30.0A	99.0W	80	2	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323821	Mean Well	RS-150-5	+5V@0-26A	130.0W	80	1	0.5	UL/CUL/TUV/CE/CB	67.35	58.41	55.49
323839	Mean Well	RS-150-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323847	Mean Well	RS-150-15	+15V@0-10A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323855	Mean Well	RS-150-24	+24V@0-6.5A	156.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323863	Mean Well	RS-150-48	+48V@0-3.3A	158.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	55.49
123394	Mean Well	S-150-5	+5V@0-30A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123415	Mean Well	S-150-7.5	+7.5V@0-20A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
693353	Mean Well	S-150-9	+9V@0-16.7A	150.3W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123423	Mean Well	S-150-12	+12V@0-12.5A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202025	Mean Well	S-150-13.5	+13.5V@0-11.2A	151.2W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123432	Mean Well	S-150-15	+15V@0-10A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123450	Mean Well	S-150-24	+24V@0-6.5A	156.0W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202033	Mean Well	S-150-27	+27V@0-5.6A	151.2W	240	0.2	0.2	UL/CUL/TUV/CE/CB	69.79	59.33	44.49
167346	Mean Well	S-150-48	+48V@0-3.2A	153.6W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05

Call for special  
versions and large  
quantities

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing			
			Voltage@Current (min-max)	Power					1	10	25	
323871	Volgen	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	—	64.95	\$29.75	\$25.29	\$21.50

\* Primary Output



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 150-Watt Enclosed with Power Factor Correction

**SP-150, TP-150 & QP-150 Series: Single, Triple & Quad Outputs**

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 200-Watt Enclosed with Power Factor Correction

**SP-200 Series: Single Output**

- 100% full-load burn-in
- Built-in fan cooling
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 200-Watt Enclosed with Power Factor Correction

**QP-200 Series: Quad Output**

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- 2.6 watts/in<sup>3</sup> maximum
- Built-in fan cooling
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 240-Watt Enclosed

**S-240 Series: Single Output**

- 100% full-load burn-in
- No minimum load required
- 3.4 watts/in<sup>3</sup> maximum
- Auto cooling fan
- Voltage adjustment: 10%
- Mating connector: P/N 103588, pg 174
- Input: 88-132/176-264VAC @ 47-63Hz
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



For PC Power Supplies, see page 258.

Open-Frame Power Supplies on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
201903	Mean Well	SP-150-3.3	+3.3V@0-30A	99.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$81.15	\$68.89	\$67.51
201911	Mean Well	SP-150-5	+5V@0-30A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	72.00
693505	Mean Well	SP-150-7.5	+7.5V@0-20.0A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	92.19
173421	Mean Well	SP-150-12	+12V@0-12.5A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
394193	Mean Well	SP-150-13.5	+13.5V@0-11.2A	151.2W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	92.19
173412	Mean Well	SP-150-15	+15V@0-10A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	91.21	85.70
173404	Mean Well	SP-150-24	+24V@0-6.3A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	101.99	97.02	94.12
693513	Mean Well	SP-150-27	+27V@0-5.6A	151.2W	150	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
201930	Mean Well	SP-150-48	+48V@0-3.2A	153.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
213832	Mean Well	TP-150C	+5V@2-15A; +15V@0.4-4.5A; -15V@0-0.6A	151.5W	100	3	1	UL/CUL/TUV/CE/CB	107.25	96.47	86.83
213648	Mean Well	QP-150F	+5V@3-10A; +15V@0-3A; +24V@0.4-2A; -15V@0-0.6A	152.0W	120	2	1	UL/CUL/TUV/CE/CB	151.49	143.55	136.37
693521	Mean Well	SP-200-3.3	+3.3V@0-40.0A	132.0W	100	1	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202042	Mean Well	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.51
693530	Mean Well	SP-200-7.5	+7.5V@0-26.7A	202.2W	100	1	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
194774	Mean Well	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	112.49	105.73	102.55
212410	Mean Well	SP-200-13.5	+13.5V@0-14.9A	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202060	Mean Well	SP-200-15	+15V@0-13.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.51
194782	Mean Well	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
693548	Mean Well	SP-200-27	+27V@0-7.5A	202.5W	150	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202068	Mean Well	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
213752	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	204.9W	100	2	1	UL/CUL/TUV/CE/CB	161.69	152.88	145.24
693556	Mean Well	S-240-7.5	+7.5V@0-30.0A	225.0W	200	1	0.5	UL/CUL/TUV/CE/CB	106.85	100.94	98.92
137649	Mean Well	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	106.85	100.94	98.92
202075	Mean Well	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	107.35	91.08	80.49
137657	Mean Well	S-240-24	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
392834	Mean Well	S-240-30	+30V@0-8A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
167338	Mean Well	S-240-48	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB	106.25	90.16	79.67



\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

**NEW**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
199515	Globtek	RT-3S150-24	24V@6.5A	156.0W	100	5	5	UL/CE	\$95.99	\$86.49	\$64.49
1585549	Potrans	FS-15024-IM	24@0-6.5A	156.0W	240	—	—	UL/CUL/CE	44.95	39.95	34.95
371012	Potrans	GL150W-24-NC	24V@6.5A	156.0W	150	—	—	UL/CUL/TUV/CE	49.95	42.46	31.84
1585557	Potrans	IM201C12-IM-02	12V@0-16.6A	200.0W	120	—	—	UL/CUL/TUV/CE	69.95	62.95	51.95
689750	Potrans	FS-20024-1M	24V@0-8.3A	200.0W	150	—	—	UL/CSA/CE/TUV	89.95	79.95	69.95

\* Primary Output

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

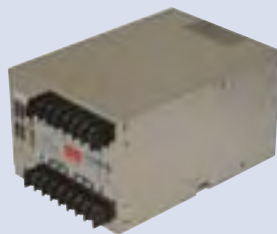
# 300 to 480-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 300-Watt Enclosed with Power Factor Correction

### PSP-300 Series: Single Output

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 300 & 320-Watt Enclosed with Power Factor Correction

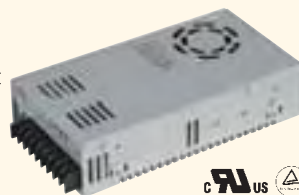
- 100% full-load burn-in • Universal AC input
- No minimum load required
- Auto cooling fan • Voltage adj.: 10%
- Three-year warranty

### SP-300 & SP-320 Series: Single Output

- Input: 88-264VAC @ 47-63Hz, 120-370VDC
- Working temperature: SP-300: -10°C to +60°C; SP-320: -20°C to 65°C

### QP-320 Series: Quad Output

- Input: 90-264VAC @ 47-63Hz • Working temperature: -10°C to +70°C



## 320-Watt Enclosed

### S-320 Series: Single Output

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 480-Watt Enclosed with Power Factor Correction

### SP-480 Series: Single Output

- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



For PC Power Supplies, see page 258.

Open-Frame Power Supplies  
on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
374185	Mean Well	PSP-300-24	+24V@0-12.5A	300.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	\$191.15	\$180.94	\$171.90
202091	Mean Well	SP-300-5	+5V@0-50A at 230VAC; 0-40A at 115VAC	250.0W	150	1	0.5	UL/CUL/TUV/CE/CB	169.95	144.46	108.34
212396	Mean Well	SP-300-13.5	+13.5V@0-21A at 230VAC; 0-16.8A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
161980	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244735	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	94.75	86.00	78.29
394215	Mean Well	SP-320-7.5	+7.5V@0-40A	300.0W	150	1	0.5	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244743	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693599	Mean Well	SP-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693610	Mean Well	SP-320-15	+15V@0-20.0A	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244752	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693628	Mean Well	SP-320-27	+27V@0-11.7A	315.9W	200	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244770	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
668764	Mean Well	QP-320D	+5V@2.5-20A; +12V@0-10A; +24V@0.2-5A; -12V@0.2-2A	316.0W	100	2.0	1.0	UL/CUL/TUV/CE/CB	164.85	155.15	146.55
668772	Mean Well	QP-320F	+5V@2.5-20A; +15V@0-10A; +24V@0.2-5A; -15V@0.2-1.6A	316.0W	100	2.0	1.0	UL/CUL/TUV/CE/CB	164.85	155.15	146.55
216776	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	120.59	116.97	113.47
207212	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	123.05	116.91	111.06
207204	Mean Well	S-320-12	+12V@0-25A	300.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
693572	Mean Well	S-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
374993	Mean Well	S-320-15	+15V@0-20A	300.0W	150	0.5	0.5	UL/CUL	120.59	102.50	76.88
196657	Mean Well	S-320-24	+24V@0-12.5A	300.0W	150	0.5	0.5	UL/CUL	129.95	117.31	105.56
693581	Mean Well	S-320-27	+27V@0-11.0A	297.0W	200	0.5	0.5	UL/CUL	120.59	116.97	113.47
207191	Mean Well	S-320-48	+48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	120.59	116.97	113.47
693636	Mean Well	SP-480-3.3	+3.3V@0-85.0A	280.5W	80	1	0.5	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
693644	Mean Well	SP-480-5	+5V@0-85.0A	425.0W	80	1	0.5	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
301373	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
693652	Mean Well	SP-480-15	+15V@0-35.0A	480.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	245.99	214.62	193.16
301322	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301402	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	248.49	216.79	199.95



\* Primary Output

Ⓡ Blue Part No. = Limited Quantity Available

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

NEW

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
1585565	Potrans	FS-32024-1M	24V@0-12.5A	320.0W	150	—	—	UL/CUL/CE	\$99.95	\$89.95	\$75.95
689776	Potrans	1M321C48-0M	48V@0-6.5A	312.0W	240	—	—	UL/CUL	99.95	94.95	84.95

\* Primary Output

[www.Jameco.com](http://www.Jameco.com)

For enclosed power supplies from Condor visit our website today.

Ⓡ RoHS compliant product

Ⓡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## 500-Watt Enclosed with Power Factor Correction

### SP-500 Series: Single Output

- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- 3.6 watts/in<sup>3</sup> maximum • Remote control
- Auto cooling fan • Voltage adjustment: 10%
- Input: 100-240VAC @ 50-60Hz
- Mating connector: P/N 103588 pg 174
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 600-Watt Enclosed

### SE-600 Series: Single Output

- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A @ 115VAC
- Leakage current: <2mA @ 240VAC
- Short circuit/overload/overvoltage/overtemperature protection
- Working temperature: -20°C to +60°C
- Size: 9.7"L x 5.0"W x 2.5"H
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



## 600-Watt Enclosed with Power Factor Correction

### PSP-600 Series: Single Output

- Built-in active PFC function
- Forced air cooling by built-in DC fan
- Built-in remote ON-OFF control, and remote sense function
- Current sharing up to 2400W (3 +1)
- Short circuit/overload/overvoltage/overtemperature protection
- Input: 88-264VAC @ 47-64Hz/124-370VDC
- Mating connector: P/N 103588 or 302877, pg 171
- Working temperature: -20°C to +50°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 600-Watt Enclosed with Current Sharing

### SCN-600 Series: Single Output

- 100% full-load burn-in
- Auto cooling fan
- Voltage adjustment: 5%
- 3.7 watts/in<sup>3</sup> maximum
- Universal AC input: 90-130/180-260VAC @ 47-63Hz
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +65°C; (+50°C to -65°C @ 50% load)
- Mounting hardware: use P/Ns 222156 & 222173
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



## 600-Watt Enclosed with Power Factor Correction

### SCP-600 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC
- Short circuit/overload/overvoltage/overtemperature protection
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Built-in remote sense function, and remote ON-OFF function
- Mating connector: P/N 103588 or 302877, pg 171
- Working temperature: -20°C to +65°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications

- PFC: >0.98 @ 230VAC
- Power good signal
- With parallel function (N +1)
- Forced air cooling by built-in DC fan
- Three-year warranty




























   





PERFORMANCE  
At Value Prices

For PC Power Supplies, see page 258.

Open-Frame Power Supplies  
on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190693	Mean Well 	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	\$279.95	\$241.99	\$217.84
212389	Mean Well 	SP-500-13.5	+13.5V@0-36A at 230VAC; 0-30.6A at 115VAC	486.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
213605	Mean Well 	SP-500-15	+15V@0-32A at 230VAC; 0-27.2A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
147054	Mean Well 	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
190706	Mean Well 	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
161796	Mean Well 	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	287.45	248.52	223.68
374002	Mean Well 	SE-600-05	+5V@0-100A	500.0W	150	2	0.5	UL/CUL	173.95	147.86	110.90
291522	Mean Well 	SE-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295902	Mean Well 	SE-600-24	+24V@0-25A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295911	Mean Well 	SE-600-27	+27V@0-22.2A	599.4W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295929	Mean Well 	SE-600-48	+48V@0-12.5A	600.0W	200	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
374214	Mean Well 	PSP-600-12	+12V@0-50A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.99	229.43	217.98
374222	Mean Well 	PSP-600-15	+15V@0-40A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374231	Mean Well 	PSP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374257	Mean Well 	PSP-600-27	+27V@0-22.2A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.99	238.99	226.99
374249	Mean Well 	PSP-600-48	+48V@0-12.5A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	201.35	192.46	182.86
220249	Mean Well 	SCN-600-05	+5V@0-100A	500.0W	100	2	0.5	UL/CUL/CB	292.99	276.99	269.99
220257	Mean Well 	SCN-600-12	+12V@0-50A	600.0W	120	1	0.5	UL/CUL/CB	292.99	256.99	237.99
374045	Mean Well 	SCN-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	244.05	207.44	161.95
220265	Mean Well 	SCN-600-24	+24V@0-25A	600.0W	240	1	0.5	UL/CUL/CB	292.99	276.99	269.99
374062	Mean Well 	SCN-600-48	+48V@0-12A	600.0W	480	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
388631	Mean Well 	SCP-600-12	+12V@0-50A	600.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	367.55	318.50	238.88
388640	Mean Well 	SCP-600-15	+15V@0-40A	600.0W	140	0.5	0.5	UL/CUL/TUV/CE/CB	367.55	318.50	238.88
374264	Mean Well 	SCP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	369.45	314.03	235.52
374301	Mean Well 	SCP-600-48	+48V@0-12A	576.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	302.81	227.11

\* Primary Output

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 500, 1000 & 1500-Watt Enclosed with Power Factor Correction & Current Sharing

### PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- 100% full-load burn-in • Voltage adj.: 10%
- No minimum load required • 3.6 watts/in<sup>3</sup> maximum
- Auto cooling fan • Remote sense and control
- Mating connector: P/N 103588, pg 174
- Working temperature: -10°C to +60°C
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

#### PSP-500 and PSP-1000:

- Parallel operation (current sharing)
- Universal AC input: 90-264VAC @ 47-63Hz, 127-370VDC

- PSP-1500: • Universal AC input: 176-264VAC @ 47-63Hz, 248-370VDC



PSP-500



## 750-Watt Enclosed with Power Factor Correction

### SP-750 Series: Single Output

- 100% full-load burn-in • Universal AC input: 88-264VAC @ 47-63Hz, 127-370VDC
- Withstanding voltage of 300VAC surge input for 5 seconds
- Short circuit/overload/overvoltage protection
- High operating temperature up to 70°C
- Built-in active PFC function, PF>0.95
- Built-in constant current limiting circuit
- Built-in remote ON-OFF control
- Built-in remote sense function
- Cooling by built-in fan
- Mating connector: 103588, pg 174
- High power density: 5.48W/in<sup>3</sup>
- Power-good and fail-signal outputs
- Three-year warranty



## 800-Watt Enclosed with Power Factor Correction

### SCP-800 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/ 260-370VDC • PFC: >0.98 @ 230VAC
- Short circuit/overload/overvoltage/ over temperature protection
- Forced air cooling by built-in DC fan
- Built-in remote sense function, and remote ON-OFF function
- Power good signal • With parallel function (N +1)
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Mating connector: P/N 103588 or 302877, pg 171
- Working temperature: -20°C to +65°C
- Three-year warranty • See [www.Jameco.com](http://www.Jameco.com) for specifications



## 1000 & 1500-Watt Enclosed with Power Factor Correction

- Universal AC input/full range
- Short circuit/overload/overvoltage/ overtemperature protection
- Forced air cooling by built-in fan
- Built-in remote ON-OFF control
- Working temperature: -20°C to +70°C
- Three-year warranty

NEW



### RSP-1000 Series: Single Output

- Built-in 5V/0.5A auxiliary power
- DC OK signal
- Power density: 10.7W/in<sup>3</sup>
- 1U low profile (41 mm)
- Size: 11.6"L x 5"W x 1.6"H

### RSP-1500 Series: Single Output, Current Sharing

- ZVS new technology
- Built-in 12V/1A auxiliary power
- Current sharing up to 6000W (3 + 1)
- 8.3W / inch<sup>3</sup> • Size: 10.9"L x 5.0"W x 3.3"H



For PC Power Supplies, see page 258.

Open-Frame Power Supplies on pages 212-216.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190714	Mean Well	PSP-500-12	+12V@0-41.5A at 230VAC; 0-33.2A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$283.49	\$240.93	\$180.69
190722	Mean Well	PSP-500-24	+24V@0-20.8A at 230VAC; 0-16.6A at 115VAC	499.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	283.49	240.93	180.69
190731	Mean Well	PSP-500-27	+27V@0-18.5A at 230VAC; 0-14.8A at 115VAC	499.5W	150	0.5	0.2	UL/CUL/TUV/CE/CB	283.49	240.93	180.69
190749	Mean Well	PSP-500-48	+48V@0-10.5A at 230VAC; 0-8.4A at 115VAC	504.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	283.49	240.93	180.69
374029	Mean Well	SP-750-15	+15V@0-50A	750.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	447.19	380.11	285.08
320048	Mean Well	SP-750-24	+24V@0-31.3A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
374038	Mean Well	SP-750-27	+27V@0-27.8A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
320056	Mean Well	SP-750-48	+48V@0-15.7A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
388615	Mean Well	SCP-800-12	+12V@0-66A	792.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
388623	Mean Well	SCP-800-15	+15V@0-53A	795.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
374310	Mean Well	SCP-800-24	+24V@0-33A	792.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	375.49	281.62
374337	Mean Well	SCP-800-48	+48V@0-16A	768.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	455.75	419.84	393.60
217366	Mean Well	PSP-1000-12	+12V@0-75A at 230VAC; 0-63.8A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
217358	Mean Well	PSP-1000-24	+24V@0-37.6A at 230VAC; 0-32A at 115VAC	902.4W	150	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
231652	Mean Well	PSP-1000-27	+27V@0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
217350	Mean Well	PSP-1000-48	+48V@0-19A at 230VAC; 0-16.2A at 115VAC	912.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	591.95	499.68	454.93
1585670	Mean Well	RSP-1000-12	+12V@0-60A	720W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585696	Mean Well	RSP-1000-15	+15V@0-50A	750W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585717	Mean Well	RSP-1000-24	+24V@0-40A	960W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585709	Mean Well	RSP-1000-27	+27V@0-37A	999W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
1585725	Mean Well	RSP-1000-48	+48V@0-21A	1008W	150	0.5	0.5	UL/CUL/TUV/CE/CB	544.49	516.79	490.94
373261	Mean Well	PSP-1500-12	+12V@0-112.5A	1350.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	747.65	663.25	619.25
231685	Mean Well	PSP-1500-13.5	+13.5V@0-100.5A	1356.7W	150	0.5	0.3	UL/CUL/TUV/CE/CB	537.59	488.79	444.35
373923	Mean Well	PSP-1500-24	+24V@0-56.4A	1353.6W	150	0.5	0.2	UL/CUL/TUV/CE/CB	771.25	655.56	491.67
231714	Mean Well	PSP-1500-27	+27V@0-50.4A	1360.8W	150	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	668.91	501.68
231723	Mean Well	PSP-1500-48	+48V@0-28.5A	1368.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	663.25	619.25
694903	Mean Well	RSP-1500-5	+5V@0-240A	1200W	150	2	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94
694911	Mean Well	RSP-1500-12	+12V@0-125A	1500W	150	0.5	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94
694920	Mean Well	RSP-1500-15	+15V@0-10A	1500W	150	0.5	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94
694938	Mean Well	RSP-1500-24	+24V@0-63A	1512W	150	0.5	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94
694946	Mean Well	RSP-1500-27	+27V@0-56A	1512W	150	0.5	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94
694954	Mean Well	RSP-1500-48	+48V@0-32A	1536W	200	0.5	0.5	UL/CUL/TUV/CE/CB	782.79	752.73	680.94

\* Primary Output

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# Mean Well Modular Power Supplies 450/650/1000W

## Custom-Configured Mean Well Power Supplies!

### Specific Configurations for All of Your Power Needs!

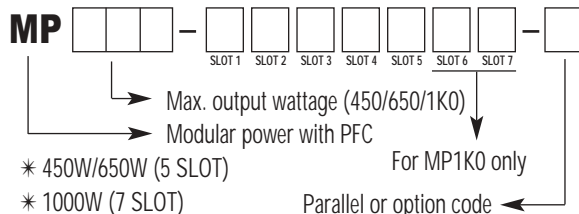
Looking for a supply with unique voltage or current requirements? How about more than four outputs? Now Jameco offers Mean Well's Modular power supplies, custom-configured at the factory to your specific needs, with up to 14 isolated outputs.

There are thousands of combinations available for the modular series. This solution provides engineers with one of the fastest ways to procure custom configured power supplies with safety and EMC certificates.

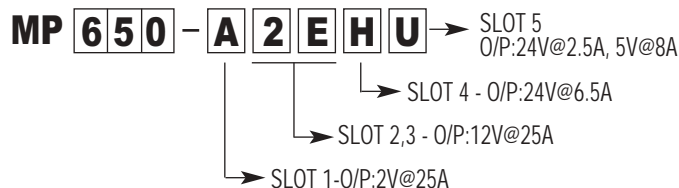
*These modular power supplies are custom orders. For all inquiries including specific lead times, please contact Jameco's Power Supply Department at 1-800-794-9100 ext. 3.*



## Output Configuration Guide



EXAMPLE



Single output (MS-75) 1 SLOT (75W max)			
Voltage Code	Output	Voltage Code	Output
L	3.3V 0-15A	O	15V 0-15A
M	5V 0-15A	P	24V 0-3.2A
N	12V 0-6.3A	Q	48V 0-1.6A

Dual output (MD-100) 1 SLOT (100W max)			
Voltage Code	Output 1	Output 2	Max.(W)
R	5V 2.0-10A	5V 0.0-8A	90
S	5V 2.0-10A	12V 0.0-5.8A	100.4
T	5V 2.0-10A	15V 0.0-4.7A	101
U	24V 0.5-3.0A	5V 0.0-10A	100
V	24V 0.6-3.0A	12V 0.0-4.7A	100.8
W	12V 1.0-5.0A	12V 0.0-5.8A	100.8
X	15V 1.0-4.7A	15V 1.0-4.7A	100.5

Single output (MS-150) 1 SLOT (150W max)	
Voltage Code	Output
A	2V 0-25A
B	3.3V 0-25A
C	5V 0-25A
D	7.5V 0-18A
E	12V 0-13A
F	15V 0-10A
G	18V 0-8.5A
H	24V 0-6.5A
I	27V 0-5.8A
J	33V 0-4.7A
K	48V 0-3.2A

Single output (MS-300) 2 SLOT (300W max)	
Voltage Code	Output
2A	2V 0-50A
2B	3.3V 0-50A
2C	5V 0-50A
2D	7.5V 0-40A
2E	12V 0-25A
2F	15V 0-20A
2G	18V 0-16.7A
2H	24V 0-12.5A
2I	27V 0-11.2A
2J	33V 0-9.1A
2K	48V 0-6.3A

*These modular power supplies are custom orders.*

*For all inquiries including specific lead times, please contact*

*Jameco's Power Supply Department at 1-800-794-9100 ext. 3.*

Power

## General Specifications

### Features:

- Zero voltage switching technology
- Worldwide ITE safety approvals
- High efficiency operation
- Thousands of possible output configurations
- Remote control on each output module
- Remote sense on each individual output
- Active PFC, PF>0.95
- Universal AC input/full range
- Built-in parallel function (MS-300)
- Fan alarm function
- Forced air cooling
- 2.5 inch profile

Model No.	MP450	MP650	MP1K0
AC Input Voltage Range	85-264VAC or 12-370VDC		
Power Factor	PF>0.95/230VAC, PF > 0.98/ 115VAC at full load		
AC Inrush Current (max.)	Cold start, 40A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC
Max Output Wattage	450W	650W	1000W
Efficiency (Typical)	83%	85%	84%
Over Temperature Protection	Output shutdown, auto recovery		
Fan Alarm	Output shutdown, when fan malfunction		
Withstand Voltage	I/P - O/P: 3KVAC, I/P - FG: 1.5KVAC, O/P - FG: 0.5KVAC, 1 minute		
Working Temperature	-20°C ~ +50°C @ 100%, +70°C @ 50% load		
Safety Standards	UL60950-1, TUV EN6095-1		
EMC Standards	Compliance to EN55022 class B, EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024 light industry level, criteria A		
Connection	Input side: 3P/10mm pitch terminal block & JST B3B-XH		
Dimensions (L" x W" x H")	10.0 x 5.0 x 2.5	10.9 x 5.0 x 2.5	10.9 x 7.0 x 2.5

## DIN-Rail Switching Power Supplies



- Low cost, high reliability
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload, over-voltage protection
- 100% full-load burn-in test
- For DIN-Rail terminal blocks see pg 169

Part No.	Product No.	Fig.	Pwr (W)	Output Volts@Curr.	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373174	DR-30-5	1	15	5VDC @ 3A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	\$43.19	\$38.86	\$34.98
373182	DR-30-12	1	24	12VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.19	38.86	34.98
373191	DR-30-15	1	30	15VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373203	DR-30-24	1	36	24VDC @ 1.5A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.19	38.86	39.16
212303	DR-4505	2	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	48.35	43.53	39.16
192699	DR-4512	2	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
221875	DR-4515	2	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	48.35	43.53	39.16
192681	DR-4524	2	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
373212	DR-60-5	1	32.5	5VDC @ 6.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
373230	DR-60-12	1	54	12VDC @ 4.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373238	DR-60-15	1	60	15VDC @ 4A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373246	DR-60-24	1	60	24VDC @ 2.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
212291	DR-7512	3	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	81.35	73.21	65.89
212282	DR-7524	3	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	81.35	73.21	65.89
212274	DR-12012	4	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
212266	DR-12024	4	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221904	DR-12048	4	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221892	DRP-24024	5	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
221883	DRP-24048	5	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
373123	DRT-240-24	5	240	24VDC @ 10A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	183.95	165.56	165.56
373114	DRT-240-48	5	240	48VDC @ 5A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	183.95	165.56	148.99
252663	DRP-48024	6	480	24VDC @ 20A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	229.89	207.99	187.19
252655	DRP-48048	6	480	48VDC @ 10A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	229.89	207.99	187.19
295938	DRP-480S-24	6	480	24VDC @ 20A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67
301306	DRP-480S-48	6	480	48VDC @ 10A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67
372576	DRT-480-24	6	480	24VDC @ 20A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	186.26	167.63
373106	DRT-480-48	6	480	48VDC @ 10A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	175.91	131.93
373131	DRT-960-24	6	960	24VDC @ 40A	3-phase 340-550 @ 47-63	2.0A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	445.49	400.95	360.86
373149	DRT-960-48	6	960	48VDC @ 20A	3-phase 340-550 @ 47-63	2.0A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	445.49	400.95	360.86
Part No.	Cross Ref. No.	Description	Material	Type	Length	1	10	100			
248736	2094.0	Prepunched DIN mounting rail	Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")	\$7.15	\$5.72	\$4.31			

\*Switch selectable † With Power Factor Correction

## 13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short-circuit protected
- Fuse protected
- Output mating terminals: see pg 174 for cigarette plugs & pg 278 for banana terminal plugs

135845  
Banana/  
Cigarette



136581  
Banana  
terminal



138668  
Banana  
terminal  
(rear)



Part No.	Model No.	Power (W)	Output Volts@Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845	RPS1204	55.2	13.8VDC @ 4A	115VAC @ 60Hz	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$38.34	\$34.62	\$31.55
136581	RPS1207	96.6	13.8VDC @ 7A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	69.95	59.95	54.95
138668	38-381	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138676	52-192012	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

# P/N 136581 includes overheating protection

## 108-Watt Desktop Power Supplies

- Input voltage: 88-132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Short-circuit/overload/over-voltage/over-temperature protection
- Line regulation: ±5%
- Front panel on/off switch & 3 color LED loading indicator
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 5.5"D x 3.3"H • Weight: 3.3 lbs.

673230



673230:

- Ripple and noise max.: 120mVp-p
- Voltage adjustment range: 12VDC to 15VDC
- Efficiency (typical): 81%
- Load regulation: ±2%

673256:

- Ripple and noise max.: 150mVp-p
- Voltage adjustment range: 24VDC to 30VDC
- Efficiency (typical): 83%
- Load regulation: ±1%

Part No.	Product No.	Description	1	10	25
673230	ESP-120-13.5	13.5V @ 0 - 8A	\$69.69	\$67.85	\$63.99
673256	ESP-120-27	27V @ 0 - 4A	69.69	67.85	63.99

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For more Power-One power supplies visit [www.Jameco.com](http://www.Jameco.com)

## Linear Power Supplies

- Worldwide AC input capabilities – 100/120/220/230/240 VAC
- Low output ripple
- 100% burn-in test
- 2-year warranty
- UL/CSA/TUV approvals
- CE marked to low voltage directive
- Overvoltage protection standard on 5V single outputs
- Output regulation:  $\pm 0.05\%$
- Load & line regulation:  $\pm 0.05\%$
- MTBF in excess of 300,000 hours



Part No.	Product No.	Output Voltage (VAC) @ Current (A)	Ripple & Noise (mV p-p)	Size (L" x W" x H")	1	10	100
697371	HAA15-0.8-A	+12@1.0; -5@0.4	5.0	6.50 x 4.00 x 2.10	\$63.79	\$60.75	\$57.86
697389	HB24-1.2-A	+24@1.2	3.0	4.87 x 4.00 x 2.10	51.85	49.36	47.01
697397	HB5-3/0VP-A	+5@3.0	5.0	4.87 x 4.00 x 2.10	51.85	49.36	47.01
697400	HC24-2.4-A	+24@2.4	3.0	5.62 x 4.87 x 2.95	74.25	70.71	67.35
697426	HCC15-3-A	+12@3.4; -12@3.4	5.0	9.38 x 4.87 x 3.28	130.09	123.87	117.97
697451	HTAA-16W-A	+5@2.0; +12 to +15@0.4; -12 to -15 @ 0.4	5.0	6.50 x 4.00 x 2.10	81.75	77.83	74.13



## Rackmount Power Supplies

### N+1 DC Power System with Battery Back-up Charging

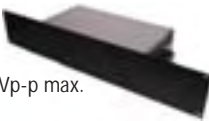
- N+1 redundancy
- Volt/ampere meter
- Input voltage range: 105 to 125VAC, 60Hz
- Remote monitoring and indication
- Forced air cooling by 2 fans
- Short-circuit, current limit, fan failure, input surge suppression protection
- Chassis & cover: steel (black epoxy powder coat)
- Size: 19"W x 15.9"D x 3.6"H



Part No.	Product No.	Output (VDC @ A)	Wt. (lbs.)	1	10	25
673272	SEC-40BRM	13.8 @ 40	20.5	\$449.95	\$427.45	\$406.09
673281	SEC-60BRM	13.8 @ 60	22.0	507.65	473.25	453.49
673299	SEC-80BRM	13.8 @ 80	23.5	584.35	555.19	527.39
673310	SEC-100BRM	13.8 @ 100	25.0	659.95	626.95	595.65
677396	SEC-2430BRM	27.6 @ 30	22	524.39	498.15	473.25
677484	SEC-2450BRM	27.6 @ 50	25	671.75	638.15	606.25

### 600W Single Output

- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Short-circuit, overload, overvoltage, overtemperature protection
- Size: 19.5"W x 5.0"D x 3.5"H



Part No.	Product No.	Output (VDC @ A)	1	10	25
673336	600-12RM	12 @ 50	\$252.75	\$240.15	\$228.15
673395	SE-600-24RM	24 @ 25	252.75	240.15	228.15
673408	SE-600-48RM	48 @ 12.5	252.75	240.15	228.15

### 2 x 23 Amp

- Input voltage: 100 to 130VAC @ 50/60Hz
- Output current (surge): 24A x 2
- Chassis: aluminum (black anodized)
- UL/CUL approved
- Cover: steel (black epoxy powder coat)
- Size: 19"W x 8.7"D x 3.5"H



Part No.	Product No.	Output (VDC @ A)	Wt. (lbs.)	1	10	25
673328	SEC-1223R2	13.8 @ 23Ax2	8.2	\$240.15	\$235.27	\$226.74

\* This product is a special order, non-cancelable, non-returnable and may take up to 2 weeks to ship.





**NEW**

## DC-DC Converters

★ Please call or visit our website for minimum order quantity and pricing.

Jameco Part No.	Product No.	Input Range	Output		Size (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing		
			Voltage@Current	Power								1	10	100
865549	YNM05S05	3V-5.5V	0.75V to 3.63V@5A	20W	0.8x0.45x0.25	5	.01%	0.3%	-40 to 85	94%	69,000,000	\$17.95	\$16.28	\$14.92
923251	YM12S05	9.6V-14V	0.75V to 5.5V@5A	28W	0.8x0.45x0.25	5	±1mV	—	-40 to 85	92%	71,800,000	15.45	14.03	12.86
865573	YNM12S05-S	9.6V-14V	0.75V to 5.5V@5A	28W	0.8x0.45x0.25	5	±1mV	—	-40 to 85	92%	71,800,000	★	Call	Call
865451	QL48T30012-NCA0	36V-75V	1V@30A	30W	2.3x1.45x0.50	8	±1mV	±1mV	-40 to 85	79%	2,600,000	187.35	170.31	156.12
865629	ZY1207-T2 (POL)	3V-14V	0.5 to 5.5V@7A	38W	0.86x.05x0.25	36	0.2%	0.2%	-40 to 85	—	6,240,000	31.35	28.45	26.08
865485	SQ48T04120-NBB0	36V-75V	12V@4A	48W	2.3x0.9x0.34	8	±4mV	±4mV	-40 to 85	87%	3,400,000	★	Call	Call
865602	YNS05S16-D	3V-5.5V	0.75V to 3.63V@16A	53W	1.3x0.53x0.31	6	0.1%	0.1%	-40 to 85	94%	46,000,000	★	Call	Call
865434	QD48T033050-NBA0	36V-75V	3.3V@15A; 5V@10A	100W	2.3x1.45x0.34	7	±2mV	±2mV	-40 to 85	88%	2,600,000	228.69	207.87	190.56
865418	QBC11ZH-T	36V-75V	12V@11A	132W	2.28x1.45x0.43	8	0.5%	0.5%	-40 to 85	91%	1,980	★	Call	Call
865514	SQT48T38096-NDBLG	38V-55V	9.6V@38A	364.8W	2.3X0.9X0.48	5	—	—	-40 to 85	95.2%	TBD	★	Call	Call

★ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

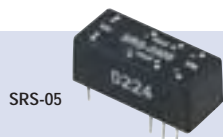
 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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227

## 0.5 & 1-Watt Unregulated Encapsulated Converters



**0.5 & 1-Watt**  
**SRS-05 & SPR01 Series:**  
**Single Output**

- 1000VDC isolation
- Input filter: capacitor type
- Working temperature: -15°C to +60°C
- No external components needed

- 100% burn-in test
- Protection: short-circuit
- One-year warranty

## 3 to 30-Watt Encapsulated Converters

- 1000VDC isolation
- Shielded metal case

- Input filter: Pi network
- Protection: short-circuit & overload

- 2:1 wide input range
- One-year warranty

- 100% burn-in test



**3, 5 & 10-Watt**  
**SCW03, DCW03, SLW05, SKE10 & DKE10 Series: Single & Dual Outputs**

- Regulated
- Working temperature: -15°C to +60°C



**15-Watt**  
**SKE15 & DKE15 Series:**  
**Single & Dual Outputs**

- Regulated
- Free-air convection cooling
- Working temperature: -15°C to +60°C



**20-Watt**  
**TKB20 Series:**  
**Dual Outputs**

- Output trim
- Free-air convection cooling
- Working temperature: -40°C to +71°C



**30-Watt**  
**SDM30 Series:**  
**Dual Outputs**

- Output trim
- Remote ON/OFF
- Working temperature: -25°C to +85°C

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For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Product No.	Input Range	Output		Size Inches (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
213226	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$5.05	\$4.79	\$4.55	\$4.33
216831	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	9.49	8.54	7.68	6.91
213269	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	16.75	15.07	13.60	12.19
155919	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161702	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	22.19	20.02	18.01	16.21
220389	SLW05L-12	4.5-9V	+12V@417mA	5W	2.0x1.0x0.44	5	0.2	0.5	100	24.95	22.49	20.25	18.25
220354	SLW05A-033	9-18V	+3.3V@1500mA	5W	2.0x1.0x0.44	5	0.2	0.5	100	23.94	21.54	19.40	17.45
216929	SLW05A-05	9-18V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	26.45	23.37	21.47	19.35
216882	SLW05A-15	9-18V	+15V@333mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216937	SLW05B-05	18-36V	+5V@100mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216911	SLW05B-12	18-36V	+12V@417mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
213234	SLW05C-05	36-72V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	20.70	18.60	16.74	15.08
220337	SKE10B-033	18-36V	+3.3V@2400mA	8W	2.0x1.0x0.44	5	0.3	0.5	50	29.95	26.99	21.59	16.19
216962	SKE10A-05	9-18V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
216980	SKE10A-15	9-18V	+15V@666mA	10W	2.0x1.0x0.44	5	0.3	1.0	60	34.29	30.85	27.22	26.27
216953	SKE10B-05	18-36V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217024	SKE10B-12	18-36V	+12V@840mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.29	30.85	27.22	26.27
216945	SKE10C-05	36-72V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
217032	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	38.09	34.29	27.42	20.57
217092	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	36.35	32.71	29.07	26.47
217112	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217075	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
155716	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	35.99	32.49	29.15	26.35
155708	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155695	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213277	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213285	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
161729	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2x2x0.43	5	0.3	0.5	60	35.95	32.36	25.88	19.41
213293	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05
217649	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	41.99	36.30	36.09	32.19
217235	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2x1.8x0.62	8	1.0	1.0	100	34.95	31.77	28.88	26.26
217243	SDM30-24S12	18-36V	+12V@2500mA	30W	2x1.8x0.62	8	1.0	1.0	100	49.65	44.66	40.23	36.23

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 25 to 150W Isolated Enclosed DC-to-DC Converters

## 25 to 150-Watt Enclosed Converters

- Input filter: Pi-network
- Working temperature: -10°C to +60°C

- 2:1 wide input range
- Protection: short-circuit, overload and overvoltage

- Shielded metal case
- One-year warranty

- 100% burn-in test



**25-Watt**  
**SD-25 Series: Single Output**

- Isolation voltage: 500VDC



**50, 100 & 150-Watt SD-50, SD-100 & SD-150 Series: Single Output**

- Isolation voltage: 1500VDC
- Mounting hardware: use P/Ns 222156 & 222173 (see web)



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Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
175662	SD-25A-5R	9-18V	+5V@5000mA	25W	3.9x3.8x1.4	5	0.5	0.5	100	\$42.99	\$32.54	\$30.44	\$26.24
175805	SD-25A-12R	9-18V	+12V@2100mA	25.2W	3.9x3.8x1.4	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175813	SD-25A-24R	9-18V	+24V@1100mA	26.4W	3.9x3.8x1.4	5	0.2	0.2	150	44.65	33.78	31.60	27.24
212549	SD-50A-5R	9-18V	+5V@10A	50W	6.3x3.8x1.5	5	0.5	0.5	100	35.79	32.53	29.58	26.89
212531	SD-50B-12R	19-36V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	54.55	49.09	39.27	28.05
212514	SD-50B-24R	19-36V	+24V@2.1A	50.4W	6.3x3.8x1.5	5	0.2	0.2	150	38.29	34.46	27.57	26.55
212506	SD-50C-12R	36-72V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	51.95	39.99	36.99	32.99
216565	SD-100B-12R	19-36V	+12V@8.5A	102W	7.8x3.9x1.5	7	0.3	0.3	120	63.35	57.02	45.61	34.21
212469	SD-100C-12R	36-72V	+12V@8.5A	102W	7.8x3.9x1.5	7	0.3	0.3	120	66.49	56.15	53.03	46.79
217270	SD-150B-12R	19-36V	+12V@12.5A	150W	7.8x4.3x2.0	7	0.5	0.5	120	82.95	74.66	59.72	44.79

## 10 to 60-Watt Isolated Open-Frame DC-to-DC Converters

## 10 to 60-Watt Open-Frame Converters

- Isolation voltage: 1500VDC

- Industry standard footprint

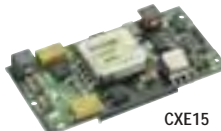
- Remote ON/OFF

- 100% burn-in test

- Two-year warranty



CXA10



CXE15



EXQ60

**10-Watt**  
**CXA10 Series:**  
**Single Output**

- 4:1 input voltage range
- Protection: short-circuit & overload
- Working temperature: -40°C to +100°C

**15-Watt**  
**CXE15 Series:**  
**Single Output**

- No minimum load
- Protection: overvoltage & overcurrent
- Working temperature: -40°C to +65°C
- Output trim

**20-Watt**  
**CXA20 Series:**  
**Single Output**

- No minimum load
- 4:1 input voltage range
- Protection: overvoltage, overtemperature & short-circuit
- Working temperature: -40°C to +60°C

**60-Watt**  
**EXQ60 Series:**  
**Dual Outputs**

- No minimum load
- 4:1 input voltage range
- Protection: short-circuit, overcurrent & overvoltage
- Working temperature: -40°C to +100°C

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Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
219037	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2.0x1.0x0.54	6	0.1	0.2	30	\$17.89	\$16.99	\$16.15	\$15.34
219070	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2.0x1.0x0.35	6	0.3	2.0	40	39.19	35.26	31.73	28.56
219088	CXE15-48S2V5	33-75V	+2.5V@6000mA	15W	2.0x1.0x0.35	6	0.3	1.5	40	39.19	35.26	31.73	28.56
219053	CXE15-48S3V3	33-75V	+3.3V@4500mA	15W	2.0x1.0x0.35	6	0.1	0.5	70	17.29	16.44	15.62	14.84
219109	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2.0x1.6x0.41	8	0.1	0.2	75	49.02	44.12	39.71	35.74
218894	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3x1.5x0.50	7	—	—	60	113.35	109.99	91.79	82.61
218907	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60W	2.3x1.5x0.50	7	—	—	60	112.95	101.16	91.48	82.33

Blue Part No. = Limited Quantity Available

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# 6 to 15-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

Color Code Legend			
New	Sale	Lower\$	QtySave

## 6 to 15-Amp Point-of-Load Converters

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Two-year warranty



### 6-Amp SIL06C Series: Single Output

- Very high MTBF
- "Power good" signal
- Protection: overcurrent & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)
- Ultra-wide trim range
- Planar magnetics technology

### 10-Amp SIL10E Series: Single Output

- Very high MTBF
- 96% efficiency at 3.3V
- Planar magnetics technology
- Working temperature: -40°C to +100°C (derated above 70°C)
- Remote sense
- Highest power density: 107W/in<sup>3</sup>
- Protection: thermal & short-circuit

### 15-Amp SIL15C Series: Single Output

- Ultra-wide trim range
- Protection: overcurrent & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing			
			Voltage@Current	Power								1	10	25	100
219168	SIL06C-05SADJ-H	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.53	8	0.2	0.5	0 to +80	89	1,300,000	\$12.35	\$11.12	\$10.01	\$9.01
219133	SIL10E-05S2V5-V	3.0V-5.5V	2.5V@10A	25W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	21.85	19.66	17.69	15.93
219117	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	23.99	21.55	19.39	17.46
219125	SIL10E-05S3V3-V	4.5V-5.5V	3.3V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	22.99	21.55	19.39	17.46
218886	SIL15C-05SADJ-V	4.5V-5.5V	0.9-3.3V@15A	50W	1.2x1.1x0.4	13	0.2	0.5	0 to +80	89	—	9.19	8.32	7.59	6.89

Blue Part No. = Limited Quantity Available

## AC-to-DC Regulated & Unregulated Table-Top Power Supplies

We will change any power plug (pg 174) on any table-top power supply (100 pc. minimum) for a small additional charge.

### AC-to-DC Regulated Linear & Unregulated Table-Top Power Supplies

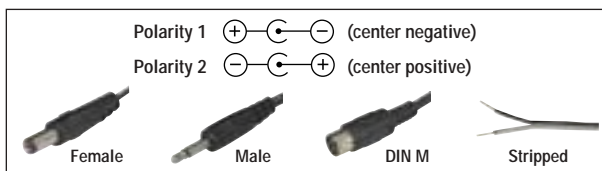
Quantity SAVE



211060



689661



243109



143714

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25	211060	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6'/6'	1.7	UL/CSA	\$12.19	\$10.97	\$9.03	\$6.58
	174845	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	—	18.65	16.78	13.42	10.07
3-Wire AC Input – Regulated Linear																	
3-55 Watts	664261	Intermec	062035	3.75	+5/0.75	120@60	4-pin DIN M	No	Black	4.4 x 2.5 x 2.0	6'/6'	1.6	UL/CSA	\$14.95	\$13.49	\$10.76	\$8.07
	689661	Regal	R1JG-5500	30	+5/1; -5/0.5	120@60	5-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'/6'	2.7	UL	21.95	19.95	17.49	14.95
	689653	Regal	RJM-551228	55	+5/0.9; -5/0.2; +12/0.62; -28/0.16	120@60	6-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'/6'	1.3	CUL	24.95	22.49	19.95	16.49
2-Wire AC Input – Unregulated																	
3-55 Watts	190051	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	243109	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'/6'	1.2	UL/CSA	13.95	12.56	10.04	7.53
	354941	Terayon	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'/6'	1.4	UL/CUL	11.05	9.39	7.98	6.78
	136565	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	15.35	13.82	11.05	8.29
	140880	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	15.85	14.24	12.10	9.08
	143714	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	CUL-No UL	19.74	17.76	15.99	14.39
	143722	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	16.45	14.80	13.32	11.99
	143731	—	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	CUL-No UL	15.49	13.99	11.99	10.99
139096	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	18.49	16.79	15.29	13.99	
3-Wire AC Input – Unregulated																	
15-25	157956	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	\$12.05	\$10.85	\$8.68	\$6.51
	196306	—	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.4 x 2.0	6'/6'	1.8	UL/CSA	12.95	11.69	9.34	7.01

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

# AC-to-DC Regulated Switching Table-Top Power Supplies

We will change any power plug (pg 174) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 245 for International Power Cords



391770



673651




220442



230499



DIN M

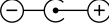
Polarity 1  (center negative)



Female



Male

Polarity 2  (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output Output Connector		Input VAC@Hz	ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Switching																	
18-24 Watt	379613	Mean Well ⚡	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	\$22.29	\$19.98	\$17.49	\$16.66
	377925	Mean Well ⚡	P30B-1P2JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	27.69	24.77	22.39	21.27
	380622	Mean Well ⚡	ES25B05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379761	Mean Well ⚡	P30B-1P2MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379920	Mean Well ⚡	ES25B07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.83	22.35	17.88	13.40
	380673	Mean Well ⚡	ES25B07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	195806	Horizon ⚡	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'6"	0.9	UL/CUL/TUV/CE	32.45	29.19	26.31	23.66
	195768	Horizon ⚡	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
	391770	Mean Well ⚡	ES18B12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	673651	Artesyn	SSL20C-7612	20	+12/1.67	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.6 x 2.4 x 1.1	3'3" <sup>3</sup>	0.4	UL/CSA/VDE	17.95	15.25	12.96	11.02
	1537555	APD	DA-24B12	24	+12/2.0	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.2 x 1.3	6' <sup>3</sup>	0.4	UL/CUL/TUV/CE	18.95	17.95	16.15	13.95
	391778	Mean Well ⚡	ES18B24-P1JU	18	+24/0.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.55	22.55	19.53	19.38
	196138	DVE	DSA-0283A	23	+5/1, -12/1.49 +5/0.43	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6' <sup>3</sup>	0.8	UL/CSA/TUV	19.95	18.95	15.48	11.62
25-50 Watt	379939	Mean Well ⚡	ES25B09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	380682	Mean Well ⚡	ES25B09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379787	Mean Well ⚡	P30B-2P2MU	26	+9/2.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	28.43	25.40	22.97	21.82
	379947	Mean Well ⚡	ES25B12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	23.35	20.88	18.27	17.41
	380702	Mean Well ⚡	ES25B12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377942	Mean Well ⚡	P30B-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	26.99	24.13	21.82	20.73
	379795	Mean Well ⚡	P30B-3P2MU	27	+12/2.25	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379955	Mean Well ⚡	ES25B15-P1JU	25	+15/1.67	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	380711	Mean Well ⚡	ES25B15-P1MU	25	+15/1.67	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377960	Mean Well ⚡	P30B-4P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	25.39	22.69	20.51	19.48
	379656	Mean Well ⚡	P30B-4P2MU	27	+15/1.8	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	28.43	25.40	22.97	21.82
	379962	Mean Well ⚡	ES25B18-P1JU	25	+18/1.39	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.83	22.24	19.47	18.28
	380729	Mean Well ⚡	ES25B18-P1MU	25	+18/1.39	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379971	Mean Well ⚡	ES25B24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.83	22.24	19.47	18.28
	380762	Mean Well ⚡	ES25B24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	221613	Mean Well ⚡	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'6"	0.8	UL/CUL/TUV/CE	28.79	25.92	23.29	21.08
	379989	Mean Well ⚡	ES25B28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.83	22.35	18.33	13.75
	380780	Mean Well ⚡	ES25B28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	205911	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6'7"	1.1	UL/CUL	17.49	15.75	12.59	9.45
	379997	Mean Well ⚡	ES25B48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	24.83	22.24	18.50	13.88
	380809	Mean Well ⚡	ES25B48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	220442	Horizon ⚡	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2 <sup>†</sup>	Yes	Black	4.3 x 2.0 x 1.2	6' <sup>3</sup>	0.6	UL/CUL/TUV/CE	29.95	26.96	21.56	16.17
	230499	PhiHong ⚡	PSA60W-120	50	+12/4.2	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6' <sup>3</sup>	0.5	UL/CUL/TUV/CE	37.59	33.84	30.44	29.35

\* See accessory table-top power cord chart below when AC cord needed; refer to <sup>1</sup>, <sup>2</sup> or <sup>3</sup> in "Cord (DC/AC)" column above for correct power cord  
 ▲ Brand and product number may vary except for ReliaPro, Mean Well, PhiHong and GlobTek

<sup>†</sup> Right angle

## 3-Wire Table-Top Power Supplies on next page



38041





38050

## \* Accessory Power Input Cords for Table-Top Power Supplies





189587

For Additional Power Cords See Pages 244-245.

Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
38041	1	3-conductor power cord 	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.35	\$2.83	\$2.74	\$2.64
38050	2	3-conductor power cord 	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.29	2.87	2.12
189587	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.49	2.05	1.99	1.89

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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
 New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

# AC-to-DC Regulated Switching Table-Top Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

We will change any power plug (pg 174) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 245 for International Power Cords



309876



695244



243012



221681



DIN M

Polarity 1  $\oplus$   $\ominus$  (center negative)



Female



Male

Polarity 2  $\ominus$   $\oplus$  (center positive)

Power	Part	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
	Number			Brand ▲	Pwr (W)									Volts (VDC)/ Current (A)	1	10	50
3-Wire AC Input – Regulated Switching																	
10-20 Watt	221568	Mean Well	P40A-OP2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	\$27.59	\$24.83	\$22.60	\$20.37
	309876	Go Forward	G112-USO520	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	17.75	15.98	12.78	9.59
	196218	GlobTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	695244	DVE	DSA-0151D-05	12	+5/2.4	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.9 x 2.0 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	17.29	15.95	14.40	12.95
	377845	Mean Well	ES18A05-P1JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	379720	Mean Well	ES18A05-P1MU	15	+5/3.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	355506	APS	AD-740U-1050/LP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.6	6'/1	0.8	UL/CUL/TUV/CE	17.29	15.56	12.45	9.34
	379592	Mean Well	ES25A05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.39	20.94	18.33	17.46
	380471	Mean Well	ES25A05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	213584	Mean Well	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	26.05	23.45	21.62	20.54
	377862	Mean Well	ES18A09-P1JU	18	+9/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/2	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	379736	Mean Well	ES18A09-P1MU	18	+9/2.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	303538	Poltrans	UP01411120	12	+12/1.0	100-250@50-60	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	16.75	13.37	11.70	11.14
	228988	Phihong	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	17.53
	376623	Mean Well	ES18A12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	379702	Mean Well	ES18A12-P1MU	18	+12/1.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	1537432	Eng Electric	EPA-201D-12	20	+12/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.3	6'/2	0.2	UL/CUL/TUV/CE	16.95	15.25	13.49	11.49
377880	Mean Well	ES18A15-P1JU	18	+15/1.2	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.55	22.55	19.53	19.39	
379744	Mean Well	ES18A15-P1MU	18	+15/1.2	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29	
303546	Poltrans	UP01811180	18	+18/1.0	100-250@50-60	2.1mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	19.55	17.96	16.70	15.40	
394232	Mean Well	ES18A24-P1JU	18	+24/0.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CUL/TUV/CCC/CBCE	26.99	24.75	21.43	21.28	
21-27 Watt	213576	Mean Well	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	32.95	29.66	23.72	20.60
	379698	Mean Well	ES25A07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.83	22.35	17.88	13.84
	380497	Mean Well	ES25A07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377909	Mean Well	P30A-1-1P2JU	23	+7.5/3.06	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.65	22.67	21.59	20.50
	379752	Mean Well	P30A-1-1P2MU	23	+7.5/3.06	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379728	Mean Well	ES25A09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	380518	Mean Well	ES25A09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379779	Mean Well	ES25A12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	380534	Mean Well	ES25A12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377896	Mean Well	P30A-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	26.99	24.85	23.66	22.47
	379824	Mean Well	ES25A15-P1JU	25	+15/1.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	380542	Mean Well	ES25A15-P1MU	25	+15/1.66	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	243012	Mean Well	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	26.15	24.05	22.91	21.75
	379841	Mean Well	ES25A18-P1JU	25	+18/1.38	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	21.09	18.87	16.54	15.76
	380551	Mean Well	ES25A18-P1MU	25	+18/1.38	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379883	Mean Well	ES25A24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	380577	Mean Well	ES25A24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	221681	Mean Well	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	31.25	28.13	25.30	22.76
	379892	Mean Well	ES25A28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	380585	Mean Well	ES25A28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379903	Mean Well	ES25A48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	24.83	22.35	18.33	13.75
380606	Mean Well	ES25A48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
215088	Mean Well	P30A-8P2JU	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	24.29	23.26	22.10	20.99	
196270	Everglow	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4	1.2	UL/CUL/TUV/CE	29.65	26.70	24.00	21.61	
190650	Ault	SW300	25	+5/4, +12/1.0	100-250@50-60	5-pin DIN M	No	Black	5.9 x 3.4 x 2.1	6'/2	1.5	UL/CSA/TUV	9.95	8.96	8.06	7.25	
190960	Mean Well	P25A13D-R1U	26	+5/2.5, +12/0.8, -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	39.99	36.02	32.38	29.18	
221720	Mean Well	P25A14E-R1BU	25	+5/2.5, +15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	34.25	30.88	27.76	25.01	

\* See accessory table-top power cord chart on page 231 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek Ⓢ Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies continued on next page

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# AC-to-DC Regulated Switching Table-Top Power Supplies

See page 245 for International Power Cords

We will change any power plug (pg 174) on any table-top power supply (100 pc. minimum) for a small additional charge.



206528



229032



211191



211107

Polarity 1 (center negative)



Female



Male

Polarity 2 (center positive)



DIN M

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
30-40 Watt	320080	GlobTek	TR9CA6000LCP-Y	30	+5/6.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.7 x 2.4 x 1.3	6' 2	0.7	UL/CUL/TUV/CE	\$28.39	\$26.32	\$23.68	\$21.33
	206528	Mean Well	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6' 6	1.5	UL/CUL/TUV/CE	33.05	29.75	26.44	24.23
	229009	Phihong	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6' 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.66
	401042	ReliaPro	EA10362	36	+12/3.0	120 240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.9 x 1.8 x 1.2	6' 3	6.0	UL/CUL/TUV/CE	23.69	21.17	19.14	18.19
	695033	—	TG-3601-12V	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.2	4' 10 3	0.6	UL/CUL/TUV/CE	18.95	17.10	15.39	13.75
	155214	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CUL/TUV	40.25	36.19	32.56	29.32
	297693	Mean Well	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	355064	ReliaPro	JR-TT-40-12	40	+12/3.33	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 2	0.6	UL/CUL/TUV/CE	34.69	27.75	24.29	23.04
	229017	Phihong	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6' 2	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221576	Mean Well	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	37.45	33.62	30.25	27.23
	230481	Phihong	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6' 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.75
	229025	Phihong	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6' 2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.66
	181885	Mean Well	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/TUV/CE	42.45	38.19	34.36	30.93
	297757	Mean Well	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CUL/VDE/CE	41.69	37.54	33.78	30.40
	229032	Phihong	PSA31U-480	30	+48/0.63	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.6	6' 2	0.5	UL/CUL/TUV/CE	25.25	22.82	22.36	21.91
	221584	Mean Well	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	37.35	33.62	26.89	20.16
	211191	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4' 2	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01
	404443	AcroPower	ASK30T-577/07	30	+5/3, +12/0.1 -12/0.5	100-240@50-60	5-pin DIN M	No	Black	6.0 x 3.5 x 2.0	6' 6	2.0	UL/CUL/CE	19.95	17.95	14.36	10.77
41-50 Watt	221488	Mean Well	SPU50-1U	50	+5/10	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	6' 6	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	622547	Samsung	AD-4212L	42	+12/3.5	100-240@50/60	1.6mm x 4.0mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6' 2	0.6	UL/CUL/CE	21.95	19.75	15.80	11.85
	622555	Samsung	AD-4212L-2.1	42	+12/3.5	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6' 2	0.6	UL/CUL/CE	24.95	22.45	17.96	13.47
	447099	Potrans	UP0482112D	48	+12/4	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.6 x 2.5 x 1.4	6' 2	0.7	UL/CUL/TUV	32.69	26.13	22.86	17.19
	1537256	Ault	PW125RA2403F2	41	+24/1.7	100-250@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.9 x 2.6 x 1.7	6' 2	0.7	UL/CUL/TUV/CE	27.95	25.15	22.69	19.95
	221702	Mean Well	P50A13D-R1BU	50	+5/4.0, +12/2.0 -12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4' 6	1.5	UL/CUL/TUV/CE	56.35	50.75	45.68	41.08
	211107	Fortron	FSA55P31	45	+5/5, +12/3 -12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4' 2	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
237367	Mean Well	P50A14E-R1BU	42	+5/3.5; +15/1.2 -15/0.3	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4' 6	1.2	UL/CUL/TUV/CE	42.49	38.25	37.25	36.26	
60-80 Watt	155231	Mean Well	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6' 6	1.3	UL/CSA/TUV	59.94	53.94	47.94	43.14
	297722	Mean Well	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6' 6	1.3	UL/CUL/TUV/CE	49.95	44.95	44.45	43.96
	376607	Mean Well	P66A-3P2JU	66	+12/5.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CSA/TUV/CE	42.90	38.62	33.80	32.17
	379672	Mean Well	P66A-3P2MU	66	+12/5.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CSA/TUV/CE	41.94	38.31	33.52	31.91
	391743	Mean Well	P66A-4P2JU	66	+15/4.4	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CSA/TUV/CE	41.94	38.31	33.52	31.91
	221429	Mean Well	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6' 6	2.0	UL/CUL/TUV/CE	74.69	67.23	60.50	50.41
	221437	Mean Well	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6' 6	2.0	UL/CUL/TUV/CE	67.55	57.50	51.95	49.39
	243046	Mean Well	P66A-5P2JU	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CUL/TUV/CE	46.19	41.90	38.66	35.46
	221445	Mean Well	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6' 6	2.0	UL/CUL/TUV/CE	77.94	66.35	59.94	56.99
	161606	Mean Well	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1' 9 6	1.3	UL/CSA/TUV	49.45	43.95	39.55	36.25
	297634	Mean Well	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6' 6	1.3	UL/CUL/TUV/CE	53.94	47.94	43.14	39.54
	1537125	EDAC	EA1050B-240	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.8 x 2.4 x 1.4	6' 2	1.8	UL/CUL/TUV/CE	34.95	31.45	28.30	25.45
	355056	ReliaPro	JR-TT-66-24	66	+24/2.75	90-264@50-60	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 2	1.2	UL/CUL/TUV/CE	45.42	43.16	41.00	38.94
	221453	Mean Well	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6' 6	2.0	UL/CUL/TUV/CE	65.59	55.84	50.44	47.96
	376615	Mean Well	P66A-8P2JU	66	+48/1.37	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CSA/TUV/CE	41.94	38.31	33.52	31.91
	379681	Mean Well	P66A-8P2MU	66	+48/1.37	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6' 6	1.2	UL/CSA/TUV/CE	41.94	38.31	33.52	31.91
	172065	Mean Well	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6' 6	1.3	UL/CSA/TUV	53.94	48.59	43.74	39.35
	221462	Mean Well	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6' 6	2.0	UL/CUL/TUV/CE	70.15	59.71	53.95	51.29

\* See accessory table-top power cord chart on page 231 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

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We will change any power plug (pg 174) on any table-top power supply (100 pc. minimum) for a small additional charge.

## Compact DC Regulated Switching Power Adapter with Detachable Plugs

This state-of-the-art switching power adapter offers some major advantages such as stabilized outputs, short-circuit and overload protection, compact design, and low idle consumption versus typical wall adapters.

- Plugs (mm): Male: 2.5, 3.5; Female: 1.0 x 3.0, 1.3 x 3.5, 1.7 x 4.0, 2.1 x 5.0, 1.5 x 5.5 and 2.5 x 5.5
- Size: 2.9"H x 1.2"W x 1.9"D
- Output voltages: 3/4.5/6/7.5/9/ 12VDC @ 800mA (reg.) with 1.5A max. output

Part No.	Input Voltage	Power Output	Efficiency	Wt. (lbs.)	Price
239565	100-240VAC 	10W	80%	0.2	\$19.95

## 13W Compact Switching Power Supply

- Input voltage: 110-240VAC @ 50/60Hz
- Selectable outputs: 3VDC, 4.5VDC, 5VDC, 6VDC, 6.5VDC, 7VDC
- Power LED indicator
- Output current: 1.9A (2.5A max.)
- Output connectors: 2.5mm x 5.5mm right angle, 2.1mm x 5.5mm right angle, 1mm x 5mm, 1.1mm x 3.8mm, 1.4mm x 3.5mm, & 0.75mm x 2.4mm

Part No.	Product No.	Size (H x W x D)	Price
1537539	PSSM10VU	3.2" x 1.2" x 2.2"	\$32.95

## 24-Watt Switching Power Supply






- Input voltage: 100-240VAC @ 50-60Hz
- Low electromagnetic interference
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China
- Output current: 2A
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm & 1.7mm x 4mm

Part No.	Product No.	Size (H x W x D)	Price
1537491	PSSMV3	4.7" x 3.3" x 2.5"	\$39.95

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- 3-wire AC input
- 2.5mm x 5.5mm female center positive
- Cord lengths: DC: 6'; AC: use P/N 115078, pg 244
- UL/CUL/TUV/CE approved for medical applications
- Ripple and noise: 1% or 100mV, whichever is smaller
- Size: 2.9"L x 2.0"W x 1.6"H



Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230683	TR9CE1250CP 	15.6	+12/1.3	\$34.29	\$30.85	\$27.77	\$24.96
230691	TR9CG1200CP 	18.0	+15/1.2	39.54	35.38	28.48	26.61
230739	TR9CA6000LCP	30.0	+5/6.0	46.95	42.26	33.80	32.08
230763	TR9CE4000LCP 	49.2	+12/4.0	56.15	50.51	45.46	40.91
230772	TR9CG3333LCP 	49.5	+15/3.3	49.59	44.37	35.49	33.68
230797	TR9CI2100LCP 	50.4	+24/2.1	47.55	35.79	32.21	31.64

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## Switching Table-Top Power Supplies

- Short-circuit/overload protection
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- LED power indicator

Includes: power cord

1537504: 28 Watt

- Output voltage: 5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC, 15VDC
- Output current: 3.6A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.7mm x 4mm, 1.5mm x 5.5mm

1537521: 38 Watt

- Output voltage: 5VDC to 24VDC in 1V increments
- Output current: 1.5A to 4A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm, 2.5mm x 5mm

1537512: 70 Watt

- Output voltage: 15VDC/16VDC/18VDC/19VDC/20VDC @ 3.5A; 22VDC/24VDC @ 2.9A
- Output connectors: 2.1mm x 5.5mm right angle, 2.5mm x 5.5mm right angle, 1.64mm x 4.78mm, 2.99mm x 6.28mm, 6.5mm x 14mm

Part No.	Product No.	Size (L x W x H)	Price
1537504	PSSM4VU	3.8" x 2.2" x 1.2"	\$55.95
1537521	PSSM6VU	3.5" x 1.8" x 1.2"	49.95
1537512	PSSM7U	5.5" x 3.2" x 1.7"	95.95




## Universal 60-Watt Table-Top Power Supply

RoHS and CEC Compliant

- Input voltage: 90-264VAC @ 40-50Hz (2-wire input)
- Short-circuit, overcurrent, overvoltage protection
- Input power saving: 0.75W max. for 240VAC @ no load
- Efficiency: 80% typical
- Output voltage: 24VDC @ 2.5A
- 2.1mm x 5.5mm female center positive
- UL/CUL/TUV/CE approved



Part No.	Product No.	Size (L x W x H)	1	10	50
229843	PSC60W-240-R 	5.1" x 2.4" x 1.3"	\$36.49	\$32.85	\$29.55

## Too Many Warts to Choose From!

Wall power adaptors, sometimes referred to as wall warts, are available in many evolutionary sizes and shapes. And while outwardly appearance may seem like the most apparent difference, the most important consideration should be about what's really inside.

Certainly you're aware that wall warts range from simple unregulated transformers to regulated linear and switching supplies. New variations now employ Energy Star standards to meet emerging US and European efficiency standards.

The millions of additional wall warts plugged into California outlets over the last couple of years contributed to its energy woes. Now users are more aware of the power consumed by wall warts, even when attached to devices that are switched off. So if you're concerned about needless energy consumption, think about using Energy Star compliant wall adaptors.



**Practical Practices**  
Money Saving Tips for the Engineer



## Energy Star/European Compliant Interchangeable-Plug Wall Adapters

Meets US and European Energy Star compliance.

Approved for European high-efficiency power applications.

- Field changeable AC plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive
- Regulated output
- Class B EMI
- Energy Star and ECOC compliant



Shown with plug clip  
not included

Shown with plug  
clip included

### Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking



Part No.	Product No.	Power (W)	Output Volt. (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	5	25	100
228743	PSA05R-050	5	5	1.0	50	±5%	±5%	60	2.8 x 1.8 x 1.2	\$13.05	\$11.85	\$11.35	\$11.07
228770	PSA05R-120	5	12	0.42	120	±5%	±5%	60	2.8 x 1.8 x 1.2	13.45	12.22	11.65	11.07
662864	PSM11R-050	10	5	2.0	100	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	14.69	13.78	13.25	12.70
662872	PMS11R-090	10	9	1.12	100	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	14.29	13.49	13.11	12.70
662881	PSM11R-120	10	12	0.84	120	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	16.65	15.80	15.02	14.27
662899	PSA15R-050P	15	5	3.0	50	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89
662910	PSA15R-120P	15	12	1.25	120	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89
663728	PSA15R-480P	15	48	0.31	480	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89

### Plug Clip Kit (sold separately, required for above adapters)



Lower \$\$\$



### 2.5 Watt USB Power Adapter with Interchangeable Plug

- USB socket
- Efficiency: 55% (typical)
- Voltage input range: 90-264VAC @ 47-63Hz
- Voltage output: 5VDC @ 0.5A
- Leakage current: 0.20µA max.
- UL/CUL/TUV/CE approved
- ECOC compliant and RoHS compliant
- Size: 2.97"L x 1.81"W x 1.25"H



Part No.	Product No.	Description	1	10	50	100
229181	RPKIT	Kit w/ RPA/RPE/RPK/RPS	\$2.79	\$2.53	\$2.45	\$2.42

Part No.	Product No.	1	5	25	100
662805	PSC30R-05	\$16.69	\$15.15	\$13.21	\$11.54

Power

## AC-to-DC Regulated Switching Wall Adapters

JAMECO ReliaPro

### "Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Output cord length: 6'
- Color: black
- Input voltage: 100 - 240VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm F2 (center positive)
- One-year warranty



We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details



Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
251564	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
251598	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	13.55	12.27	11.33	10.94
252701	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	13.86	12.57	11.61	11.21
252719	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	12.45	11.26	10.39	10.03
252727	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.21
252735	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252752	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	12.05	10.94	10.09	9.74
252770	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252778	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252786	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	13.75	12.47	11.52	11.11
252794	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33

Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
252807	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
252815	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252823	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252832	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
254756	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	13.45	12.19	11.23	10.83
252903	S15AF150120	15.0	1000	2.9x1.3x2.2	0.3	15.95	14.49	13.37	12.90
252849	S08AH240013	24.0	130	2.5x1.1x1.7	0.2	11.55	10.40	8.32	6.24
252857	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	12.05	10.85	8.68	6.51
252866	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252874	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	13.75	12.47	11.94	11.52

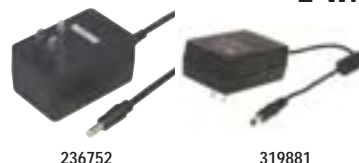
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For Tyco power products visit our website today.

# AC-to-DC Regulated Switching Wall Adapters (Continued)

Color Code Legend			
New	Sale	Lower\$	QtySave

## 2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters

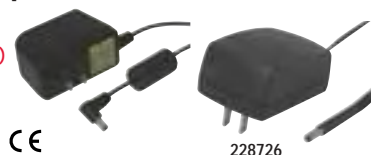


We specialize in Wall Adapters – Call for additional OEM PRICING.  
We will change any power plug (pg 174) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

Polarity 1 (center negative)

Polarity 2 (center positive)

Female



Part Number	Brand ▲	Product Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
230544	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$16.29	\$14.80	\$13.76	\$12.45
210894	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.25	12.86	11.54	9.63
236752	GlobTek	WR92A2600CCP†	5	2600	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	14.19	12.77	11.51	10.36
319881	Mean Well	ES18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.65	12.60	11.79	10.98
228937	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.85	11.83	11.21	10.60
379622	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380323	Mean Well	ES25U05-P1M	5	4000	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380008	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.09	14.03	13.32	12.67
380331	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	15.64	14.86	14.13
228891	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.89	12.11	11.10	10.60
228945	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.85	11.59	11.45	11.35
319899	Mean Well	ES18U09-P1J	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	12.03	11.26	10.48
380139	Mean Well	ES25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380350	Mean Well	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
228954	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
312865	Mean Well	ES18U12-P1J	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	14.99	13.85	12.96	12.07
380155	Mean Well	ES25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.09	14.03	13.32	12.67
380358	Mean Well	ES25U12-P1M	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.79	15.39	14.94	14.23
319920	Mean Well	ES18U15-P1J	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	12.03	11.26	9.81
380172	Mean Well	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.69	12.72	12.08	11.49
380366	Mean Well	ES25U15-P1M	15	1670	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.10	16.55	16.02	15.47
380190	Mean Well	ES25U18-P1J	18	1390	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380374	Mean Well	ES25U18-P1M	18	1390	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
228971	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.75	12.44	11.49	11.09
319928	Mean Well	ES18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.25	12.25	11.46	9.98
380201	Mean Well	ES25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380391	Mean Well	ES25U24-P1M	24	1040	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380219	Mean Well	ES25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.15	14.08	13.37	12.71
380402	Mean Well	ES25U28-P1M	28	890	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380235	Mean Well	ES25U36-P1J	36	690	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380412	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380243	Mean Well	ES25U48-P1J	48	520	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380446	Mean Well	ES25U48-P1M	48	520	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47

### Other Manufacturers — Great Deals

228726	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F 2	100@60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	\$12.95	\$11.49	\$10.49	\$9.49
189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	10.95	9.85	8.59	6.75
689864	DVE	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	11.95	10.75	9.49	7.95
684721	Hitron	HESIO-06020-0-2†	6	2000	2.1mm x 5.5mm right angle F 2	100-240@50-60	3.1 x 2.2 x 1.3	Black	6'	1.2	UL/CUL/CE	12.95	11.75	10.49	7.87
308671	Hipower	HPW-1009U	9	1110	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.3	UL/CUL/TUV/CE	12.25	11.40	10.54	9.12
421649	Unifire	US100913	9	1300	2.5mm x 5.5mm F 2	100-120@50-60	2.9 x 1.7 x 1.2	Black	6'	0.2	UL/CUL	14.27	12.84	10.28	7.71
1537547	---	AD1512C	12	1000	2.1mm x 5.5mm F 2	100-240@547-63	2.4 x 1.3 x 2.0	Black	6'	0.3	UL/CUL	13.49	12.15	10.95	9.49

† 3-wire AC input

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

⬢ Blue Part No. = Limited Quantity Available

More AC-to-DC Wall Adapters listed on page 237



## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

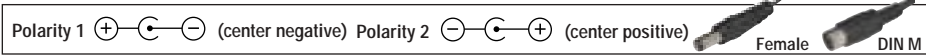
# AC-to-DC Regulated Linear Wall Adapters



## 2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

**We specialize in Wall Adapters – Call for additional OEM PRICING.**  
**We will change any power plug (pg 174) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.**

• One-year warranty



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	CSA	\$10.95	\$9.86	\$8.87	\$7.98
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.29	11.06	8.85	6.64
168605	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	13.39	12.35	11.36	9.76
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.18	8.27	7.18	5.37
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	10.38	8.75	8.22	7.74
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	13.14	11.83	10.64	9.58
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	19.95	17.95	16.15	13.45
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	15.78	14.25	12.78	11.55
174879	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.05	12.70	11.40	10.29

### Other Manufacturers — Great Deals

### Quantity SAVE

289182	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	\$10.49	\$9.45	\$7.55	\$5.65
319986	—	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.16	5.37
297941	—	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	13.19	11.87	9.50	7.13
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	13.14	10.74	8.34	6.26
154624	Motorola	512-305-4C3E	+5/±12	500/130	8-pin DIN M	120@60	2.9 x 2.6 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.66	10.09	9.29
283573	—	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.05	6.21	5.49
190529	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	7.15	6.44	5.79	5.21
425527	Condor	48-9-700R	9	700	2.1mm x 5.5mm F 1	120@60	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.89	10.97	10.42	9.50

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

## 2-Wire AC Input – AC-to-DC Unregulated Wall Adapters



**We specialize in Wall Adapters – Call for additional OEM PRICING.**  
**We will change any power plug (pg 174) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.**

• Input: 120VAC @ 60Hz • One-year warranty



280250



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$8.29	\$7.47	\$6.72	\$6.05
155601	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	6.23	5.61	5.04	4.20
119255	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	5.95	5.36	4.82	4.14
101266	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.85	4.58	4.21	3.88
15544	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.97	3.97	2.98
147707	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.99	5.49	4.79	4.25
220943	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	8.58	7.73	6.18	4.64
220951	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.70	5.22	4.71	4.29
280250	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.34	7.52	6.02	4.52
127511	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	8.75	7.88	6.30	4.73

### Other Manufacturers — Great Deals

### Quantity SAVE

320303	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	\$9.49	\$8.55	\$6.85	\$5.15
219651	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.47	3.71	2.78
237251	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.35	2.85	2.42	2.06
302439	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.45	3.56	2.66
682363	Epson	H00AA	6	600	2.1mm x 5.5mm F 1	2.4 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.49
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
249279	AESP	MW41-0751000	7.5	1000	2.1mm x 5.5mm F 2	3.2 x 2.0 x 1.7	Black	6'	0.8	UL/CUL	7.65	6.89	5.51	4.13
1581337	KTEC	KA12D0751120045U	7.5	1200	2.1mm x 5.5mm F 2	3.0 x 2.2 x 1.7	Black	6	0.9	UL/CUL	6.49	5.85	4.69	3.50

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

More AC-to-DC Wall Adapters listed on pages 235 - 236 & 238 - 239

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions.  
 Just call us! 1-800-831-4242

# AC-to-DC Unregulated Wall Adapters (Continued)

Color Code Legend			
New	Sale	Lower\$	QtySave



219601

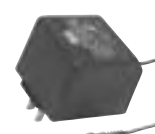


We specialize in Wall Adapters – Call for additional OEM PRICING.  
We will change any power plug (pg 174) on any DC wall adapter listed (100 pc. minimum)  
for a small additional charge.

• Input: 120VAC @ 60Hz • One-year warranty



400899



227774

Polarity 1		(center negative)		Female		Male		Stripped	Polarity 2		(center positive)
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Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
100845	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	\$4.59	\$4.37	\$4.07	\$3.70
134025	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	6.65	5.99	4.79	3.59
100837	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.22	4.74	4.30	3.90
133891	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	4.45	4.37	4.07	3.70
189238	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.35	4.52	3.71	2.96
318676	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.45	4.37	4.07	3.70
202155	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.40	3.95	3.56
140636	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.99	4.49	3.99	2.99
202171	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	5.19	5.07	4.85	4.67
163628	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	7.09	6.38	5.75	5.10
100853	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	5.14	5.09	4.67
147731	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	4.99	4.75	4.29	3.95
236937	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.25	5.99	5.87	3.79
15561	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.42	5.78	5.20	4.68
202180	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.19	5.07	4.90	4.67
100175	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.09	5.80	5.23	4.75
202198	ReliaPro	DCU090080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.85	8.53	8.26	7.99
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	10.50	9.45	8.33	7.11
127504	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.49	8.53	7.68	6.38
15587	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.35	8.43	6.74	5.06
130526	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.6 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.85	8.86	7.29	6.59
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	10.99	9.49	8.49	6.99
163993	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.80	4.33
100095	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.19	4.70	3.75	2.80
158043	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.85	4.54	3.81	3.28
220433	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.95	4.46	3.57	2.68
185658	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.29	4.76	3.81	2.86
219601	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	4.35	3.91	3.12	2.34
318692	ReliaPro	DBU120030	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	3.73	3.29	2.52
127976	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	5.99	5.66	5.04	4.64
249236	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	6.42	5.79	4.64	3.48
190502	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	7.35	6.62	5.30	4.00
114825	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.30	5.74	4.56	3.42
15368	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	8.29	7.47	6.72	6.04
102496	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	6.15	5.41	4.92
131300	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.26	6.53	5.65	4.95
102277	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	7.19	6.47	5.83	5.24
17267	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.05	5.80	5.23	4.75
202201	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.09	5.80	5.23	4.75
202219	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.83	6.17	4.94	3.70

## Other Manufacturers — Great Deals

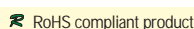
Quantity SAVE

SALE

622563	Stancor	STA-3590B	9	100	2.1mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	\$3.95	\$3.55	\$3.19	\$2.89
355936	—	35-9-200C	9	200	1.3mm x 3.5mm F 2	2.5 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.29	3.78	3.02	2.78
237243	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	1.69	1.51	1.36	1.22
400899	WABI	LF09250D-08	9	250	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	2.59	2.25	2.05	1.54
657029	Motorola	SPN4622A	9	300	1.3mm x 3.5mm right angle F 2	2.3 x 1.8 x 1.5	Black	6'	0.4	UL	4.29	3.86	3.09	2.32
1585995	Motorola	SPN4622A	9	300	2.1mm x 5.5mm F 2	2.3 x 1.8 x 1.5	Black	6'	.40	UL	3.95	3.59	3.29	2.95
169519	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F 1	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	4.62	4.17	3.75	3.38
170270	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.95	4.46	3.56	2.67
652341	Cidco	SPA-4180-65	9	600	2.5mm x 5.5mm right angle F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	3.95	3.49	3.05	2.29
421577	Powerline	0900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	7.35	6.62	5.29	3.97
164929	—	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	10.50	9.44	7.60	5.67
227774	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.16	5.72	4.29
421690	—	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	7.15	5.68	4.97	3.73
237067	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.96	7.16	5.37
457799	Condor	DSA-0151F-09	9	2000	2.1mm x 5.5mm F 1	2.3 x 2.1 x 1.7	Black	6'	0.5	UL/CUL	12.75	11.83	11.24	10.68
684836	Southwest Bell	KEC-41-100-5	10	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.65
661079	—	DP300-04	12	200	2.1mm x 5.5mm right angle F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.89	2.10
201099	—	SPN4230A	12	300	1.3mm x 3.5mm right angle F 2	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	2.19	1.97	1.58	1.19

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek

More AC-to-DC Wall Adapters listed on pages 235 - 237 & 239



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
121232	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	\$7.29	\$6.56	\$5.25	\$4.93
117479	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.99	7.36	6.77	6.23
129331	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.38	6.65	5.98	5.38
100870	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	10.79	9.71	8.74	7.86
105478	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.25	7.42	6.30	4.73
15392	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.75	7.88	7.09	6.38
196779	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.69	8.70	7.81	6.92
203036	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.39	12.95	10.39	7.77
313226	ReliaPro	DFU120150	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	13.74	12.48	11.20	9.96
136881	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.99	13.49	11.99	10.99
101291	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	13.85	12.89	11.72	10.65
249738	ReliaPro	MW57-1202000	12	2000	Stripped & tinned	3.3 x 2.7 x 2.2	Black	10'	2.0	UL/CUL	9.95	8.95	8.05	7.25
308099	ReliaPro	DDU135100	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.89	9.00	8.17	7.44
212812	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.02	3.69	3.36	3.03
212821	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.95	4.45	3.55	2.66
123932	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.89	6.19
202243	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	10.74	9.68	7.73	5.80
202260	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	10.95	9.56	8.60	6.45
190001	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.99	7.27	5.83	4.38
189982	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.99	7.27	5.83	4.38
155803	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	9.85	8.86	7.09	5.31
203502	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.95	8.95	7.16	5.37
151992	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	9.35	8.41	6.72	5.04
191652	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	11.09	9.99	8.99	8.09
162317	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	10.50	9.18	8.24	7.38
181729	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	7.65	6.89	5.50	4.12
163272	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	5.65	5.09	4.42	3.75
206958	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.86	7.91	5.93
102285	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.75	7.91	6.09	6.43
163635	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	13.02	11.70	9.33	7.01
191556	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.79	9.28	9.10	8.93
139088	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.99	8.49	7.75	6.49
168495	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	12.89	11.60	10.44	9.40
220960	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	15.29	14.25	12.53	11.98
249130	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249121	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	21.59	21.10	17.71	16.90
249113	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
199523	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	11.75	10.55	8.44	6.33
215095	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.35	7.49	6.79	6.05
230632	ReliaPro	MW48-4800250-2.1	48	250	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	4.89	4.39	3.99	3.67
215108	ReliaPro	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	9.68	8.71
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	8.60	6.45
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
123158	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.7 x 2.2 x 2.5	Black	6'	0.9	None	10.95	9.86	8.87	7.98

## Other Manufacturers — Great Deals

355590	Southwestern Bell	PS-400	12	400	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$4.49	\$3.95	\$3.49	\$2.95
1537441	CUI INC.	KA12D1200450344	12	450	2.1mm x 5.5mm F 2	2.5 x 1.8 x 1.5	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695252	—	L4D-120050R	12	500	1.3mm x 3.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695261	—	L4D-120050R-2.5	12	500	2.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695279	—	L4D-120050R-3.5	12	500	3.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
305103	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.71	3.72	2.79
320081	GlobTek	TR9CA6000LCP-Y	12	800	2.5mm x 5.5mm F 2	4.7 x 2.4 x 1.3	Black	6'	0.7	UL/CUL/TUV/CE	31.14	28.87	25.97	23.40
240101	Broadxent	AD-121AN	12	1000	2.1mm x 5.5mm F 2	2.8 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.49	6.75	5.95	4.95
189579	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.75	7.91	6.32	4.79
1585987	Globtek	GT-357-12-1500	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.5	UL/CUL	10.95	9.85	8.59	7.25
129314	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.62
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	8.95	7.95	6.95	5.90
217568	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	5.99	5.39	4.31	3.23
206957	GlobTek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	None	9.95	8.96	7.16	5.37
404339	Ault	P48240500A020G	24	500	2.1mm x 5.5mm F 2	2.5 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.45	5.99	5.24	4.97
196322	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	9.69	8.72	6.98	5.24

† 120 to 220VAC ▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

More AC-to-DC Wall Adapters listed on pages 235 - 238

# 2-Wire AC Input – AC-to-AC Wall Adapters

Color Code Legend			
New	Sale	Lower\$	QtySave



We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 174) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

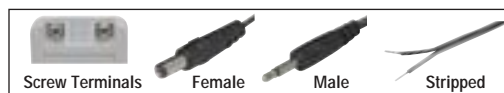


236814



233293

- Input: 120VAC @ 60Hz
- One-year warranty



Screw Terminals

Female

Male

Stripped



185439



206439

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$6.19	\$5.61	\$4.47	\$4.02
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	6.06	5.44	4.36	3.28
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	6.54	5.88	5.30	4.77
102234	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
157041	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	9.18	8.27	7.44	6.70
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	13.14	11.84	9.47	7.11
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	5.25	5.17	5.09	4.67
10081	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	6.89	6.52	6.52	5.48
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.94	5.36	4.28	3.21
10428	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	6.09	5.51	4.98	4.48
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	6.54	5.93	5.27	4.43
307838	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	12.09	10.88	8.69	6.52
153761	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	14.46	13.01	11.72	10.54
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.05	4.53	3.62	2.89
318684	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	14.34	10.80	9.64	8.22
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.50	9.46	7.56	5.68
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	9.85	8.87	7.10	5.33
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	9.85	8.86	7.98	6.77
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	6.89	6.52	6.25	5.48
140599	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.82	10.50	8.43	6.35
10102	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.50	9.47	8.51	7.14
176356	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	None	13.86	12.48	11.24	10.11

## Other Manufacturers — Great Deals

## Quantity SAVE

210729	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	\$3.95	\$3.49	\$2.95	\$2.21
249295	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm F	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	3.95	3.49	3.15	2.36
233293	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	5.15	4.64	3.71	2.78
1581281	—	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.25	5.49	4.65
320258	Ault	T48091500A010G	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	10.74	9.66	7.73	5.80
217550	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	5.95	5.36	4.28	3.21
688634	—	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	5.49	4.95	4.25	3.59
285069	Shogyo	DV-1283	12	830	2.5mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.94	5.34	4.28	3.21
206404	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.55	6.82	6.19	5.34
421585	JBL Inc	A12-1A-01	14	850	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	White	6'	0.6	UL/CSA	5.55	5.00	4.00	3.00
185439	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	None	8.25	7.42	5.94	4.46
206439	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.55	6.82	6.19	5.34

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Philhong and Globtek



## AC-to-AC Table-Top Step-Down Adapter

- Input voltage: 120VAC @ 60Hz
- Output current: 4.0A
- Output plug: 2.1mm (ID) x 5.5mm (OD) female
- Attached AC cord
- Agency approvals: CSA
- Size: 3.7"L x 2.9"W x 2.5"H
- Output volts: 16VAC
- Output watts: 64W
- Cord (AC/AC): 6'/6'
- Color: black
- Weight: 2.8 lbs.

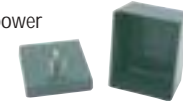


Part No.	Manufacturer	Product Number	1	10	50
176604	Jameco	TA661640	\$17.10	\$14.54	\$10.90



## Wall Adapter Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Size: 3.4"H x 2.7"W x 2.3"D
- Material: noryl • Color: black



Part No.	Style	1	10	100
115052	Non-vented	\$2.70	\$2.34	\$2.03
115043	Vented	2.59	2.20	1.65

## 36-Watt AC-to-AC Table-Top Power Supply

- Input voltage: 120VAC @ 60Hz
- Output voltage: 12VAC @ 3A
- Output connector: 6' long/2.1mm x 5.5mm female
- UL/CUL
- Input connector: 6' long/2-prong AC plug



Quantity SAVE

Part No.	Product No.	Size (L x W x H)	1	10	50
455611	D571203000	3.6" x 2.6" x 2.3"	\$11.95	\$10.16	\$7.62

We're committed to providing you with the best service in the industry.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

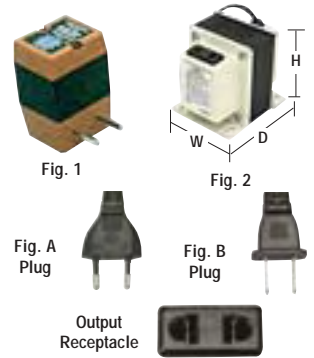
# International Step-Up/Down & Current Sensing Transformers

## International Step-Up & Step-Down Transformers

- Wide selection to meet your power requirements

Part Number	Cross Ref. Number*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Wt. (lbs.)	Pricing		
							H"	W"	D"		1	10	100
99573	AC110V50	1/A	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$11.19	\$9.33	\$8.79
85016	AC110V300	2/A	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	33.54	29.88	22.36
111851	AC110V500	2/A	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	41.94	37.79	35.98
221250	GSD-1000	2/A	Auto	220VAC	110VAC	1000	4.63	3.81	6.06	17.0	59.95	50.96	38.22
142906	AC110V1500	2/A	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	95.94	81.56	66.76
99477	AC220V50	1/B	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	8.95	8.09	7.25
85008	AC220V300	2/B	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	33.54	29.88	26.88
221217	P8689	2/B	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	76.45	72.87	68.28
221331	G1S-500	2/B	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	102.85	87.42	65.56

\* Manufacturer may vary



## TRIAD Low Frequency Current Sensing Transformer

Designed to monitor in low frequency applications. May be used to monitor current from 0.1A to 30A @ frequencies from 50Hz to 400Hz.

- Turns ratio: primary to sense – 1:500 • Hi-pot: 500V
- Typical output: 110mV/amp • Suggested burden resistor: 60Ω
- Constructed with UL recognized materials

Part No.	Product No.	Sense DCR	Primary DCR	1	10	100
627591	CSE187L	21Ω max.	250μΩ max.	\$2.51	\$2.04	\$1.93

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## Class 1 Current Transformer

- Maximum voltage: 660VAC • Frequency: 50-60Hz
- Size: 2.95"W x 1.70"D x 3.36"H • Weight: 1.1 lbs.

Includes: Mounting bracket and hardware

Part No.	Cross Ref. No.	Power	Ratio	1	10	100
174887	MSQ30	5VA	200A/5A; 5VA	\$4.43	\$4.01	\$3.60



## TRIAD

## Current Sensing Transformers

- Frequency range: 20kHz – 200kHz • UL rated 130°C materials
- Primary is inserted through hole in casing
- Rated primary current renders approximately 40°C temp. rise
- Arrow side of primary conductor has same polarity as pin #1

Part No.	Product No.	ET Vpsec Ref. 20kHz	Turns Count	Min. Ind. (mH)	DCR Max. (Ω)	Primary Arms	1	10	25
627621	CST306-1A	500	20	3.5	0.34	35 ..... \$3.99	\$3.26	\$2.90	
627647	CST306-2T	1000	100CT* 14	1.55	25 ..... 4.69	4.44	3.11		

\*CT = center tap

## Current Sensing Transformer

- Inductance: 5mH • Turns: 60
- Sensitivity current ( $I_{in}$ ): 1A • Max. current: 300mA
- Freq. range: 10-50 kHz • Sensitivity voltage ( $V_{out}$ ): 1V
- Terminating resistor: 50Ω • Size: 0.7"W x 0.46"D x 0.8"H

Part No.	Cross Ref. No.	Quantity SAVE	1	10	100
164718	MTC30101		\$2.15	\$1.83	\$1.37



## Fixed & Variable Power Transformers

### 6VAC/9VAC Dual Output Power Transformer

- 12VA
- Input voltage: 120VAC
- Output voltage: 6VAC @ 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)
- Size: 2.1"L x 2.6"W x 2.0"H • Weight: 1.3 lbs.

Part No.	Cross Ref. No.	1	10	100
183089	YS57H-099FAA	\$4.29	\$3.65	\$2.74



### 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 and 109112 (disconnect .25" solderless terminals), pg 174
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty

Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149324	320VA variable	\$54.99	\$49.99	\$44.99



### 110/220VAC Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch



Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152581	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121276	500VA trans.	\$95.94	\$83.94	\$75.54
129008	1000VA trans.	189.69	161.24	120.93
152581	2000VA trans.	209.89	178.41	134.07

### 120VAC to 120VAC Isolation Transformer

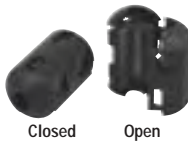
- 300VA
- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5" cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



Part No.	Cross Ref. No.	1	10	100
181315	ITR300	\$52.89	\$44.96	\$33.72

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



### Round

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218174	.64" x .20" x 1.15"	\$ .99	\$ .89	\$ .79
217841	.78" x .34" x 1.40"	1.45	1.29	1.15
318705	.82" x .45" x 1.42"	1.18	.99	.77

### Square

Part No.	Size (L" x W" x H")	1	10	100
421681	1.30 x .70 x .77 (black)	\$1.85	\$1.57	\$1.18

### 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs. • One-year warranty

Part No.	Description	1	10	50
152937	550VA variable	\$71.99	\$67.99	\$64.99



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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Power Transformers

### Chassis Mount — Quick Pack

- Hi-pot tested at 2,500V<sub>RMS</sub>
- Terminal size: 0.187" x 0.021"
- Mounting hole size: 3/16" • CT = center tap

#### Single Primary = 115V

Part No.	Prod. No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Pricing		
						1	10	100
628771	F4-24	B	6	24VCT @ 0.25A	2.38 x 1.25 x 1.38	\$7.05	\$6.30	\$5.59
629061	F6-120	C	30	120VCT @ 0.25A	3.25 x 1.69 x 1.94	12.25	9.10	8.32
629132	F7-12	C	56	12.6VCT @ 4A	3.69 x 1.81 x 2.25	14.79	12.66	11.57
629167	F7-24	C	56	24VCT @ 2.4A	3.69 x 1.81 x 2.25	14.75	13.04	11.57
618687	F8-16	E	100	16VCT @ 6.25A	4.03 x 2.25 x 2.56	21.19	18.75	16.81
618708	F8-24	C	100	24VCT @ 4A	4.03 x 2.25 x 2.56	21.25	18.75	16.81
618716	F8-36	C	100	36VCT @ 2.8A	4.03 x 2.25 x 2.56	21.19	18.75	16.81

#### Dual Primary = 115/230V

Part No.	Prod. No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Pricing		
						1	10	100
629191	FD4-12	D	6	12.6VCT @ 0.5A	2.38 x 1.25 x 1.38	\$8.59	\$7.68	\$6.82
618783	FD8-28	E	100	28VCT @ 3.6A	4.03 x 2.25 x 2.56	21.65	20.14	17.73

### Chassis Mount — Control

- Hi-pot tested at 1,500V<sub>RMS</sub> • Terminal: solder lugs
- Secondaries may be connected in series or parallel for expanded voltage and current ranges
- Commonly utilized in various electronics, electromagnetic, & electrical control applications

Part No.	Prod. No.	Pwr. (W)	Secondary		Case Type	Dimensions (H" x W" x D")	Pricing		
			Series	Parallel			1	10	100
618353	F-109U	192	24VCT @ 8A	12V @ 16A	U	4.29 x 3.44 x 3.56	\$49.79	\$44.00	\$39.47

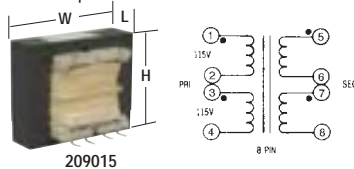
### Chassis Mount — Single Secondary

- CT = center tap • Connectors: leads
- Mounting holes: X type case – 3/16"; U type case – 13/64" x 3/8"

Part No.	Prod. No.	Primary Voltage	Secondary Voltage	Case Type	Dimensions (H" x W" x D")	Pricing		
						1	10	100
627719	F-113X	115	12V @ 0.15A	X	1.38 x 2.38 x 1.38	\$8.19	\$6.26	\$5.56
628287	F-225X	115	12.6V @ 4A	X	2.63 x 4.00 x 2.06	15.95	14.08	12.27
618370	F-182U	115	12.6VCT @ 6A	U	3.38 x 2.81 x 2.44	41.79	35.09	28.39
618548	F-260U	115	24VCT @ 6A	U	3.25 x 3.13 x 3.25	38.85	29.53	26.67
628720	F-40X	115	26.8VCT @ 1A	X	1.81 x 3.31 x 2.00	10.19	8.88	7.99

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement



## Split-Bobbin Power Transformers

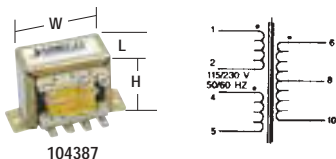
Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$5.25	\$4.46	\$3.35
102534	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	9.54	8.60	7.73
210956	DST2-24-845	—	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.17	1.40	0.95	0.2	6.49	5.52	4.14
176090	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.32	1.63	1.40	0.5	5.85	4.46	3.76
102592	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
148559	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	7.99	6.99	6.49
209015	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	2.59	2.32	2.11

\* Triad cross is for reference only

Blue Part No. = Limited Quantity Available

## Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Input voltage: 115/230VAC, 50-60Hz • Terminals: quick-connect, solder



Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	100
104387	XFR1225Q	FD612	115/230VAC	12.6VCT @ 2.5A	31.5	0.141"	2.21	2.32	2.00	1.3	\$9.29	\$7.90	\$5.92
104409	XFR16350Q	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	16.85	14.34	10.76
101865	XFR24240Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	14.79	12.56	9.42
104417	XFR36150Q	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	11.69	10.50	7.88

† Terminal solder lug are on same side

\* Triad cross is for reference only

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## 115VAC and 115/230VAC Power Transformers

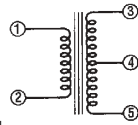
Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz



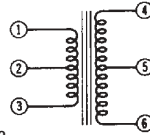
115VAC  
50-60Hz

Fig. 1



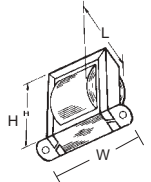
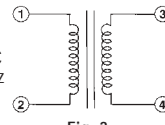
115/230VAC  
50-60Hz

Fig. 2



115VAC  
50-60Hz

Fig. 3



Part No.	Cross Ref. No.	Triad Cross#	Primary			Secondary					Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing		
						VA	Voltage	Color Code					L"	W"	H"		1	10	100
102162	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.84	2.40	1.67	0.8	\$9.45	\$8.01	\$6.01
105524	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.82	2.43	1.67	0.7	8.34	7.10	5.32
221399	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	1.89	2.75	1.99	1.3	9.15	7.78	5.84
221356	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29226	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.41	2.79	1.99	1.5	13.29	11.99	10.66
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	13.15	11.27	8.39
149770	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	3.20	2.25	2.2	12.95	11.69	10.49
102121	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.21	2.26	2.7	17.55	15.84	14.22
105532	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.20	2.81	1.99	1.2	9.19	8.28	7.03
149957	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.25	3.15	2.71	1.8	9.59	8.49	7.45
221382	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.80	1.97	0.6	8.25	7.00	5.25
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.41	2.80	1.99	1.5	10.74	9.14	6.86
221373	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.44	3.60	2.23	2.3	12.45	10.58	7.94
112512	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	2.33	3.16	2.28	1.8	10.35	9.39	8.49
221365	P-8663	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	1	2.81	2.94	4.00	4.0	20.95	19.72	16.52
221410	P-8666	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	54.95	46.71	38.63
99654	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	3.22	2.30	2.5	14.55	12.37	9.28
102104	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	3.22	2.26	2.8	17.59	15.82	14.24
149796	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	3.22	2.26	2.3	13.95	12.85	9.64

† Solder terminals

\* Center tap

# Triad cross is for reference only

Ⓢ Blue Part No. = Limited Quantity Available

## Power Entry Filters & AC Receptacles

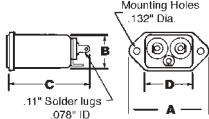


Fig. 1 (Solder Terminals)

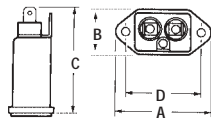


Fig. 2 (Fast-on Terminals)



Fig. 3



Fig. 4

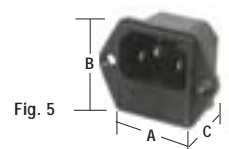


Fig. 5



Fig. 6



Fig. 7

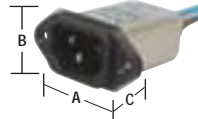


Fig. 8



Fig. 9

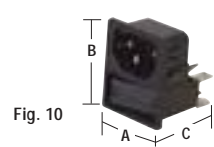


Fig. 10

- Frequency: 50/60Hz



Part No.	Cross Ref. No.	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches)				Pricing			
									A	B	C	D	1	10	100	500
150615	03AC1	Power entry filter, straight (flanged)	1	3	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.28	\$3.21
667462	YB06T1	Power entry filter, straight (flanged)	1	6	250	Fast-on	UL/CSA/VDE	0.26"	1.98	0.82	2.16	1.57	4.49	3.89	3.79	3.70
667438	YB03A1-A	Power entry filter, straight (flanged)	2	3	250	Fast-on	UL/CSA/VDE	0.26"	2.05	0.98	2.15	1.58	4.95	4.29	4.19	4.08
63132	06AE1	Power entry filter, straight (flanged)	2	6	250	Fast-on	UL/CSA/VDE	0.16"	1.96	0.88	2.06	1.58	8.34	7.52	6.02	4.50
16652	JR101	AC power inlet (male) flanged solder	3	10	250	Fast-on	UL/CSA/VDE	0.187"	1.96	0.89	1.07	1.58	1.17	1.05	.94	.85
218288	0708-1-CQ	AC power outlet (female) flanged	4	10	250	Fast-on	UL/CSA/VDE	0.189"	1.97	1.14	1.27	1.58	.35	.29	.23	.21
321621	WS-044A	AC power inlet (male) w/ fuse chamber & fuse (snap-in)	5	10	250	Fast-on	UL/CSA/VDE	0.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29
667454	SM8301	Power entry filter, straight (flanged)	6	10	250	Fast-on	UL/CSA/VDE	0.25"	1.97	0.88	1.06	1.57	.52	.494	.44	.386

### Other Manufacturers — Great Deals

165016	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.18	1.58	\$5.95	\$5.35	\$4.85	\$4.05
395647	2VK1	Power entry filter	7	2	250	Fast-on	UL/CSA/VDE	0.25"	2.81	0.91	3.10	N/A	6.95	6.26	5.01	3.74
210913	01GEEW3E	Power entry filter, straight (flanged)	8	1	250	Wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.21
147109	42R02	AC power inlet (male) snap-in	9	15	250	Fast-on	UL/CSA	0.25"	1.22	0.94	1.13	N/A	.65	.59	.468	.451
184903	42R363152IOU	AC power inlet (male) w/ switch (snap-in)	10	10	250	Fast-on	UL/CSA/VDE	0.25"	1.30	1.58	1.42	N/A	1.95	1.76	1.40	1.17
265527	WS-044†	AC power inlet (male) w/ fuse chamber (snap-in)	5	10	250	Fast-on	UL	0.185"	1.73	1.29	0.77	1.42	1.79	1.61	1.29	.97

† Includes spare fuse holder – Fuse type 5mm x 20mm (250V)

Ⓢ Blue Part No. = Limited Quantity Available

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

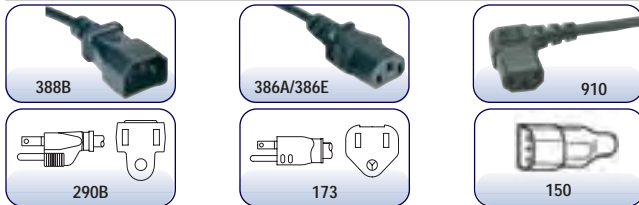


**SALE**

**Quantity SAVE**

**A Jameco EXCLUSIVE**

## Plug Detail – Industry Standard Designations



## General Purpose Power Cords

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C

**NEW**

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor "8" style power cord for laptops and power supplies

189587	VW-1	.30	1	6'	Black	18/2	SPT-2	\$2.49	\$2.05	\$1.99	\$1.89
355944	VW-1	.30	1	6'	Gray	18/2	SPT-2	2.05	1.84	1.48	1.11

### 2-conductor "D" style power cord for laptops and power supplies

200791	LL114039	.30	2	6'	Black	18/2	SPT-2	\$2.39	\$2.15	\$1.72	\$1.29
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### 3-conductor power cord with pigtail

1585522	—	.56	3	6'	Black	14/3	SJT	\$3.95	\$3.59	\$3.19	\$2.85
279662	32V86S	.32	3	6'	Black	18/3	SVT	3.59	3.14	2.85	2.79
1585514	CPB-FL-08	.56	3	8'	Black	18/3	SJT	3.49	3.15	2.85	2.49

### 3-conductor power supply cord (shielded)

1537459	LL6415	.40	4	9'10"	Beige	18/3	SJT	\$3.95	\$3.39	\$3.09	\$2.79
190625	37805	.75	4	10'	Beige	18/3	SJT	4.49	3.95	3.49	2.59

### 3-conductor power supply cord

192727	17501J	.64	4	10'	Black	18/3	SJT	\$3.95	\$3.59	\$2.89	\$2.15
1585637	171096	.60	4	8	Black	18/3	SVT	3.49	3.15	2.75	2.29
1537230	LL34877	.72	4	8'	Black	16/3	SJT	4.55	4.09	3.69	3.35

### 3-conductor computer power supply extension cord

420224	10W1-02212	.53	5	12'	Black	18/3	SVT	\$3.89	\$3.02	\$2.87	\$2.73
319804	LR94903	.33	5	6'	Gray	18/3	SVT	4.15	3.74	2.99	2.24

### 3-conductor power cord w/hospital grade male (green dot)

1537563	17510A	.82	3	10'	Gray	14/3	SJT	\$9.95	\$8.95	\$7.95	\$6.95
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## Jameco ValuePro™ Power Cords

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor power cord with pigtail

152187	17106BG	.20	7	6'	Beige	18/2	SPT-2	\$1.55	\$1.40	\$1.12	\$0.84
124434	ST008	.16	7	6'	Black	18/2	SPT-2	1.43	1.35	1.28	1.22

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty: SVT (Round): Light service: SJT (Round): Junior service † European standard insulation color code Ⓢ Blue Part No. = Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Jameco ValuePro™ Power Cords (Continued)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor power cord with pigtail with strain relief

42042	17106	.25	7	6'	Black	18/2	SPT-2	\$1.49	\$1.33	\$1.20	\$1.01
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### 3-conductor right-angle power supply cord

117356	8120-6177	.41	8	6'	Gray	18/3	SVT	\$3.95	\$3.56	\$2.84	\$2.13
38077	17250R	.54	8	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55

### 3-conductor power cord with pigtail

38009	17237	.31	3	6'	Gray	18/3	SVT	\$2.87	\$2.58	\$2.07	\$1.55
37997	17236	.30	3	6'	Black	18/3	SVT	3.35	2.79	2.54	2.39
159410	17405B	.37	3	6'	Black	18/3	SJT	2.79	2.30	2.08	1.91
102007	17535B	.49	3	10'	Black	18/3	SVT	4.15	3.85	3.33	3.17
196286	LL40378	.80	3	10'	Black	16/3	SJT	4.19	3.77	3.40	2.82
100272	17629B	.88	3	9'	Black	14/3	SJT	5.15	4.56	4.17	3.85

### 3-conductor power supply cord (shielded)

213874	17660BG	.40	4	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
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### 3-conductor power supply cord

103747	17248	.34	4	6'	Gray	18/3	SVT	\$4.65	\$4.17	\$3.54	\$2.66
38041	17249	.37	4	6'	Beige	18/3	SVT	3.35	2.83	2.74	2.64
38050	17250	.36	4	6'	Black	18/3	SVT	3.75	3.29	2.87	2.12
132118	17500	.44	4	6'	Black	18/3	SJT	4.49	4.04	3.65	3.29
117583	17502	.37	4	8'	Gray	18/3	SVT	3.49	3.14	2.83	2.54
171096	17758	.60	4	8'	Black	18/3	SJT	4.95	4.49	4.09	3.69
102024	17501V	.55	4	10'	Black	18/3	SVT	4.74	4.07	3.71	3.35
163361	6952299	.33	4	14'	Black	18/3	SJT	5.39	4.85	3.88	2.91

### 3-conductor computer power supply extension cord

28468	PEC	.36	5	6'	Black	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.10
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### 3-conductor power cord w/ hospital grade male (green dot)

132011	17006G	.82	6	10'	Gray	16/3	SJT	\$9.95	\$8.96	\$8.05	\$7.25
115078	17006	.84	6	10'	Black	16/3	SJT	9.95	8.98	8.05	7.27

### 3-conductor computer monitor power adapter cord

177448	MPC1	.16	9	1'	Black	18/3	SVT	\$3.54	\$3.20	\$2.55	\$1.91
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### 3-conductor power cord (power strip saver)

199778	PSS-1	.16	11	1'	Black	18/3	SVT	\$2.03	\$1.86	\$1.67	\$1.50
208338	SY0527BG	.16	11	1'	Beige	18/3	SVT	1.45	1.37	1.30	1.24

### 3-conductor power cord ("Y" type power strip saver)

208347	GPR-2006	.38	12	2'	Black	18/3	SVT	\$5.95	\$5.63	\$5.42	\$5.15
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## Jameco ValuePro™ Power Cords (Continued)

Lower \$\$\$

Quantity SAVE



AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

Part No.	Volex X-Ref.	Fig. (p.244)	Plug Detail (see p.244)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	50	100

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, PVC, black

38025	17238	3	—	8'	18/3	SVT	\$2.69	\$2.51	\$2.29	\$1.71
339688	40407	3	—	8'	18/3(16x30)	SJT	2.15	1.83	1.56	1.54

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, shielded, black

166925	17516	3	—	6'7"	14/3	SJT	\$4.74	\$4.28	\$3.84	\$3.46
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### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, unshielded, black

339733	17534	3	290B	6'7"	18/3(41x34)	SVT	\$2.35	\$1.74	\$1.65	\$1.60
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### 3-conductor power cord w/ pigtail, NEMA, PVC, unshielded, gray

173809	17405	3	—	6'	18/3	SJT	\$2.35	\$2.12	\$1.70	\$1.28
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### 3-conductor power cord w/ pigtail, shielded, black

339995	17751	13	910	6'7"	18/3(41x34)	SVT	\$3.15	\$2.68	\$2.27	\$1.93
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### 3-conductor power cord w/ pigtail, unshielded, black

340056	17537	13	910	9'10"	18/3(41x34)	SJT	\$3.19	\$2.71	\$2.30	\$1.96
340072	17521	10	386E	9'10"	16/3(26x30)	SJT	3.29	2.80	2.38	2.27
340099	17539	13	910	9'10"	16/3(26x30)	SJT	4.49	4.27	4.05	4.04

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service; SJO (Round): Junior service with oil-resistant jacket ↑ Temp. rating: 105°C

Part No.	Volex X-Ref.	Fig. (p.244)	Plug Detail (see p.244)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	50	100

### 3-conductor power cord, "Y" twin end, black

340566	17268A	14	150/250A	6'	18/3(41x34)	SJT	\$7.85	\$5.84	\$5.55	\$5.29
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### 3-conductor right angle detachable power cord, shielded, PVC, black

173252	17745	8	—	6'	18/3	SVT	\$3.95	\$3.56	\$2.85	\$2.14
340152	17606	8	290B/910	6'7"	18/3(41x34)	SJT	7.65	7.03	6.34	5.70

### 3-conductor right angle detachable power cord, unshielded, PVC, black

340355	17508	8	290B/910	6'7"	16/3(26x30)	SJT	\$3.11	\$2.97	\$2.82	\$2.80
177384	17507	8	—	10'	18/3	SJT	4.74	4.31	3.83	3.23

### 3-conductor detachable power cord, shielded, PVC, black

161761	17742	15	290B/386A	6'	18/3	SVT	\$4.74	\$4.28	\$3.42	\$2.57
159361	17602	15	—	6'	16/3	SJT	3.79	3.41	2.73	2.05

### 3-conductor detachable power cord, unshielded, PVC, black

340291	17001A	15	290B/386E	3.0'	16/3(26x30)	SJT	\$3.69	\$2.72	\$2.59	\$2.50
125541	17504	15	—	14/3	18/3	SJT	6.75	6.08	5.47	4.26

## International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- BSI: British Standard Institution • Voltage rating: 300V
- Cord color: black • Cord type: H05VVf

Part No.	Cross Ref. No.*	Country	Agency Approvals	Cord Length	Conductors	Pricing			
						1	10	100	250
117911	PCVDE-6B	Europe	All in fig. 1	6 ft.	3/0.75mm²	\$6.79	\$6.14	\$5.52	\$4.65
174633	21071H5182	UK/Ireland	BSI	8 ft.	3/1.0mm²	7.79	7.01	6.32	5.59

\* Manufacturer may vary



### European Agency Approvals

Germany	VDE		France	LCIE	
Austria	DVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

Fig. 1

## Battery Holders

See page 321 for more Keystone products



### Coin Cell Battery Retainers

Part No.	Product No.	Description	* Minimum order 5 pieces		
			1	5	50
1581775	3000	12mm single, SMT, for 1216/1220/1225	...	\$ .179	\$ .168
1581783	3002	20mm single, SMT, for 2016/2020/2025/2032	...	.212	.199
1581791	3003	20mm single, PC Mt, for 2016/2020/2025/2032	...	.216	.203

### Coin Cell Battery Holders

Part No.	Product No.	Description	* Minimum order 5 pieces		
			1	5	50
1581505	500	12mm single, PC Mt, For 1216/1220/1225	\$ .67	\$ .66	\$ .65
1581610	1060	20mm low profile, single, SMT, for 2032	1.02	.95	.89
1581628	1061	20mm single, SMT, for 2016/2020/2025/2032	1.00	.93	.87
1581636	1065	20mm compact, vertical single, PC Mt	1.25	1.06	.97
1581644	1066	20mm single, SMT, for 2025/2032	1.05	.99	.93
1581652	1067	20mm single, SMT, for 2025/2032	1.25	1.06	.97
1581661	1071	23mm single, SMT, for 2320/2325/2330	1.05	.98	.92
1582364	1025-7	24mm single, SMT, for 2430/2477	1.16	1.09	1.02

### Battery Holders

Part No.	Product No.	Description	* Minimum order 5 pieces		
			1	5	50
1581468	92	Single snap-in clip, PC mount A & AA	...	\$ .131	\$ .122
1581759	1294	Plastic single cell, PC mount, 9V	.97	.96	.95
1581767	2103	Steel single cell, PC mount, 1/2 AA	1.33	1.20	1.08
1582524	2105	Steel single cell, PC mount, 1/2 A	1.85	1.73	1.62

More battery holders on page 248.

### Battery Contacts

Part No.	Product No.	Description	* Minimum order 5 pieces		
			1	5	50
1581476	204	Snap-on, Leaf, For AAA, AAAA, N	...	\$ .16	\$ .144
1581484	211	Spring Contact, For A, AA	...	.062	.056
1581521	593	Horizontal "On-board" Male, PC Mt, 9V	...	.271	.244
1581548	635	Horizontal "Off-board", Male, PC Mt, 9V	...	.213	.20
1582102	5201	Negative Spring, Solder Tab, For A, AA	...	.135	.126

[www.Jameco.com](http://www.Jameco.com)

For additional Keystone products visit our website today.



## Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty



264014



264031



264049



264057



264065



264073

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$9.99	\$8.45
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	15.69	14.52
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	16.99	15.49
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	17.49	15.59
318924	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	18.65	16.89
264049	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick connect 0.187"	3.5 x 2.8 x 4.0	3.8	18.15	16.73
264057	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	18.15	16.21
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	31.99	28.99
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	38.59	33.49
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	58.99	56.99

## Automatic Battery Chargers

- Safely charge and maintain lead acid batteries without supervision
- High frequency MOSFET switching design
- Multi-stage charging circuit prevents batteries from overcharging
- Extends battery life
- Analog amp meter
- Safe for gel cell batteries
- Input voltage: 98 to 132VAC @ 50/60Hz
- Short-circuit, overload, and reverse polarity protection
- Output banks: 3



673416

Part No.	Product No.	Output Volt. DC @ Current	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
673416	SEC-1215A	13.5V @ 15A	8.5 x 8.4 x 3.3	4.8	\$141.55	\$134.49	\$127.75
673424	SEC-1230A	13.5V @ 30A	10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49
673432	SEC-2415A	27V @ 15A	10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49



## Long-Lasting Rechargeable NiMH Batteries

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCd batteries, so they're ideal for power-hungry devices like digital cameras and camcorders.

\* Priced per battery

### NiMH Batteries

Part No.	Description	Sold in Multiples of	1	8	24	96
231095	AAA, 600mAh*	2	\$3.49	\$3.13	\$2.83	\$2.53
231087	AA, 1600mAh*	4	3.49	3.13	2.83	2.53
231116	C, 3000mAh*	2	6.25	5.62	5.06	4.56
231124	D, 9000mAh*	2	8.99	8.09	6.47	5.48
231108	"9V", 150mAh	1	8.39	7.65	6.95	6.85



231095 (2/pack)



231087 (4/pack)



231116 (2/pack)



231124 (2/pack)



231108

## Silver Oxide, Zinc Chloride & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

### Silver Oxide

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
140783	357	1	Button	1.55	1600	0.454"Dia.	\$1.75	\$1.49	\$1.25

Fig. 1

### Zinc Chloride

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
151095	GF6F22	2	9V	9	300	1.7"L x 1.0"W x 0.67"Dia.	\$1.25	\$0.99	\$0.79

### Alkaline

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
249181	LR031.5V †	3	AAA	1.5	—	1.7"L x 0.40"Dia.	\$4.45	\$3.39	\$2.27
150965	Rayovac 840	4	—	4.5	600	1.14"L x 0.73"W x 0.96"H	9.95	8.99	8.06
198791	MN1604	2	9V	9	500	1.7"L x 1.0"W x 0.67"H	12.85	2.55	2.29

† Priced per battery. Sold in multiples of 3.



Fig. 2



Fig. 3 (3/pack)



Fig. 4

## Eveready® Energizer® Alkaline Batteries



198731



198707



198715



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications

Part No.	Size	1	10
198731	9-volt	\$1.89	\$1.81

- Priced per battery. Sold in multiples of 4.

Part No.	Size	4	40	100
198707	AA	\$0.64	\$0.62	\$0.61
198715	AAA	.49	.44	.43

## NiCd/NiMH Charger

Universal battery charger for AAA, AA, C, D and "9V" cells (batteries not included).

- Recharge batteries singly or as a group
- Automatic charging current selection for different sizes of batteries
- Fast charging in the specified period with an automatic switch for trickle charge
- LED lamp to indicate proper charging
- Built-in IC timer control



Part No.	Description	1	5	10
231132	Universal charger	\$17.09	\$15.55	\$15.10

## Compact Battery Tester

Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V and button cell batteries.

**Lower \$\$\$**

Part No.	Description	1	5
239556	Compact battery tester	\$3.99	\$3.75



Save 10% or more on most batteries!

**Lithium, Lithium Ion, NiCd and NiMH Batteries**

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers / descramblers and remotes.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

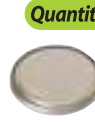


Fig. 6



Fig. 7



Fig. 8



Fig. 9

**Lithium & Lithium Ion**

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
618011	CR1/3N	1	—	3	160	Photocell	0.43"H x 0.46"Dia.	\$2.45	\$2.08	\$1.56
240258	CR123A	2	—	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.65	2.25	1.68
33371	TL5101P	3	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398	TL5104P	4	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	5.95	5.49	5.19
146114	TL2100S	5	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
673627	FBL414/F90	—	Coin cell	2	1	Vertical PC mount	0.19"Dia. x 0.07"Thick	1.49	1.29	.99
11789	CR2325	6	Coin Cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.65	1.47	1.25
14162	CR2032	—	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.12	.94
1585451	DL2032	6	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.49	1.39	1.25
689071	DL2450	6	Coin Cell	3	600	Clock/memory/watch	0.95"Dia. x 0.18"Thick	2.95	2.59	2.39
673635	CA1/2AA	—	1/2 AA	3	950	Barrel with leads	1.0"L x 0.58"Dia.	1.79	1.59	1.35
673601	NBL621/F9DE	—	Coin cell	2	4	Vertical PC mount	0.27"Dia. x 0.10"Thick	1.79	1.59	1.35
126754	TL5101S	7	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	6.95	5.91	4.43
240266	ER14250	8	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898	ER14250	9	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.29	4.11	3.90
263978	ER14335	9	Sub-AA	3.6	1450	With axial leads	1.30"L x 0.55"Dia.	4.79	4.62	4.36
240303	ER14505	10	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.19	4.85	4.55
263935	ER14505	11	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	4.99	4.75	4.52
263986	ER26500	—	C	3.6	8500	With axial leads	2.00"L x 1.02"Dia.	11.55	11.11	10.88
240160	ER26500	12	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
263994	ER34615	—	D	3.6	16,500	With axial leads	2.40"L x 1.34"Dia.	15.35	13.85	12.45
240151	ER34615	13	D	3.6	16,500	Consumer tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95
244646	UR18650H1	14	—	3.6	2200	Flat top lithium ion (rechargeable)	2.60"L x 0.71"Dia.	17.55	15.79	14.21

**NiCd – Rechargeable**

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	15	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	\$1.59	\$1.45	\$1.19
244515	AA-1000-CT	15	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
244574	SC-1500	16	Sub-C	1.2	1500	Flat top	1.70"L x 0.89"Dia.	2.15	1.98	1.87
244654	SC-1900	16	Sub-C	1.2	1900	Flat top	1.70"L x 0.89"Dia.	3.69	3.23	3.08
244531	C-2500-CT	17	C	1.2	2500	Consumer tip	1.90"L x 1.00"Dia.	4.65	4.19	3.77
244347	1/2D-2200	18	1/2 D	1.2	2200	Flat top	1.40"L x 1.30"Dia.	3.65	2.94	2.64
126720	351FT	19	—	3.6	60	2-lead (pin), barrel	0.72"L x 0.61"Dia.	4.49	4.05	3.65
119116	3/V60R	20	—	3.6	60	3-lead (pin), barrel	0.72"L x 0.61"Dia.	3.75	3.39	3.05
101653	NA101-1	21	—	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

**NiMH – Rechargeable**

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261665	AAA-700FT	22	AAA	1.2	700	Flat top	1.70"L x 0.40"Dia.	\$2.25	\$1.99	\$1.91
244814	AA-1800	23	AA	1.2	1800	Flat top	1.90"L x 0.55"Dia.	2.19	1.99	1.79
244822	AA-1800-CT	24	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244620	9V-200	25	9V	9	200	Snaps	1.94"L x 0.65"Dia.	7.79	6.92	6.22

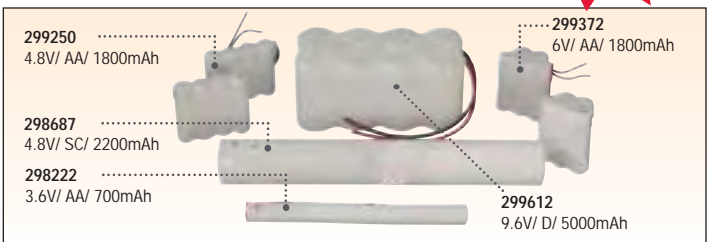
**JAMECO ReliaPro****A Jameco EXCLUSIVE****Rechargeable Battery Packs****SALE****Special  
Sale All Battery  
Packs 10% Off.  
Limited Time**

- AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm)
- SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm)
- D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

Fig. 1

Fig. 2

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
299090	1	3.6	AA	NiCd	700	Lead wire	\$8.39	\$7.69	\$7.05
298193	1	3.6	AA	NiCd	700	Solder tab	5.55	5.29	4.89
298345	1	3.6	AA	NiCd	1000	Solder tab	7.25	6.55	5.85
299241	1	3.6	AA	NiMH	1800	Lead wire	12.75	11.65	10.33
298791	1	3.6	D	NiCd	5000	Solder tab	23.85	21.42	19.28
298222	2	3.6	AA	NiCd	700	Solder tab	6.15	6.00	5.88
298679	2	3.6	SC	NiCd	2200	Solder tab	10.99	9.89	8.89
299428	2	3.6	SC	NiCd	2200	Lead wire	11.85	10.75	9.75



Rechargeable Battery Packs continued on next page.

Save 10% or more on most batteries!

JAMECO ReliaPro

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## Rechargeable Battery Packs (Continued)

SALE

Quantity SAVE

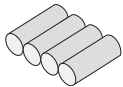


Fig. 3

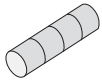


Fig. 4

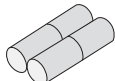


Fig. 5

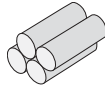


Fig. 6

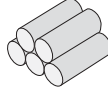


Fig. 7

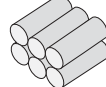


Fig. 8

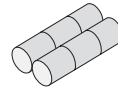


Fig. 9

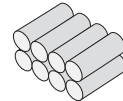


Fig. 10

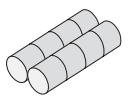


Fig. 11

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
299102	3	4.8	AA	NiCd	1000	Lead wire	\$10.45	\$9.49	\$8.59
299250	3	4.8	AA	NiMH	1800	Lead wire	14.39	13.75	13.09
299401	3	4.8	SC	NiCd	2200	Lead wire	11.55	11.24	10.97
298652	3	4.8	SC	NiCd	2200	Solder tab	13.89	12.49	11.39
299436	4	4.8	SC	NiCd	2200	Lead wire	14.75	12.54	10.98
298687	4	4.8	SC	NiCd	2200	Solder tab	13.89	12.49	11.25
298572	5	4.8	AA	NiMH	1800	Solder tab	<del>11.29</del> 10.25	9.22	8.30
298724	5	4.8	SC	NiCd	2200	Solder tab	15.29	13.74	12.37
299621	5	4.8	D	NiCd	5000	Lead wire	40.89	34.76	26.07
298919	6	4.8	D	NiCd	5000	Solder tab	<del>34.45</del> 31.85	28.66	25.79
299372	7	6.0	AA	NiMH	1800	Lead wire	17.75	15.29	14.59
298775	7	6.0	SC	NiCd	2200	Solder tab	18.59	15.83	14.25
299680	7	6.0	D	NiCd	5000	Lead wire	48.39	41.12	30.84

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
298409	8	7.2	AA	NiCd	1000	Solder tab	\$14.39	\$12.95	\$11.65
299153	8	7.2	AA	NiCd	1000	Lead wire	15.25	13.75	12.45
299305	8	7.2	AA	NiMH	1800	Lead wire	19.09	17.25	15.59
299330	9	7.2	AA	NiMH	1800	Lead wire	19.09	17.25	15.59
298732	9	7.2	SC	NiCd	2200	Solder tab	20.79	18.69	16.85
298716	10	9.6	SC	NiCd	2200	Solder tab	30.59	27.45	24.69
299461	10	9.6	SC	NiCd	2200	Lead wire	28.59	25.79	23.29
299612	10	9.6	D	NiCd	5000	Lead wire	80.59	68.50	51.37
299348	11	9.6	AA	NiMH	1800	Lead wire	22.09	19.99	18.05
298741	11	9.6	SC	NiCd	2200	Solder tab	21.99	19.79	17.79
299495	11	9.6	SC	NiCd	2200	Lead wire	19.85	18.28	17.37
299647	11	9.6	D	NiCd	5000	Lead wire	57.85	49.16	36.87

JAMECO ReliaPro

Quantity SAVE

## Battery Holders

New Keystone Battery Holders on page 245

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

A Jameco EXCLUSIVE

Part No.	Cross Ref. No.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071	BH-311-2A	1	1-AA	Wires	Single		.75	.68	.54	.41
216080	BH-321-2A	2	2-AA	Wires	Single		.79	.67	.61	.46
216099	BH-321-4A	2	2-AA	Wires	Single	With mounting tabs	.79	.71	.56	.425
216102	SBH-321-2A	3	2-AA	Wires	Single	With cover, no switch	.65	.57	.45	.343
216119	SBH-321-1AS	3	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216136	BH-331-A	4	3-AA	Wires	Single		1.49	1.33	1.21	1.10
216144	SBH-331-AS	5	3-AA	Wires	Single	With cover and switch	1.09	.87	.78	.59
216151	BH-341-2A	6	4-AA	Wires	Single		1.02	.81	.75	.56
105858	*	7	4-AA	Wires	Single	Wires with connector	1.09	.96	.87	.72
216178	BH-343-1A	8	4-AA	Wires	Dual		.69	.66	.62	.55
216186	SBH-341-1AS	9	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216223	BH-364-A	10	6-AA	Wires	Single		.85	.71	.65	.50
216231	BH-363-B	11	6-AA	Snaps	Dual		.99	.89	.71	.53
216240	BH-383-A	12	8-AA	Wires	Dual		1.19	1.05	.99	.74
216258	BH-382-B	13	8-AA	Snaps	Dual		1.19	.99	.89	.85
216267	BH-383-B	12	8-AA	Snaps	Dual		1.69	1.40	1.22	.91
216283	BH-421-1A	2	2-AAA	Wires	Single		.69	.59	.54	.49
216291	SBH-421-AS	3	2-AAA	Wires	Single	With cover and switch	.78	.71	.57	.42
216303	BH-431-1A	4	3-AAA	Wires	Single		.83	.75	.68	.59
216312	SBH-431-1AS	5	3-AAA	Wires	Single	With cover and switch	.95	.82	.70	.58
216339	SBH-441-AS	9	4-AAA	Wires	Single	With cover and switch	1.55	1.36	1.10	.83
216346	BH-211-A	1	1-C	Wires	Single		.55	.50	.40	.30
216354	BH-221-A	2	2-C	Wires	Single		1.19	1.07	.86	.65
216362	BH-242-1A	14	4-C	Wires	Single		1.39	1.25	1.00	.75
216371	BH-111-1A	1	1-D	Wires	Single		.69	.62	.496	.375
216389	BH-121-1A	2	2-D	Wires	Single		1.19	1.07	.86	.65
216401	BH-142-A	14	4-D	Wires	Single		1.19	1.07	.96	.80
216419	BH-143-1A	6	4-D	Wires	Single		1.15	.89	.81	.74
216426	BH-9V-A	15	1-9V	Wires	Single		.79	.69	.64	.59
38543	2S2325	16	1-CR2354 or 2-CR2325	PC Mount	Coin cell		.96	.86	.54	.46
355434	17002-00603	17	1-CR2032	PC Mount	Coin cell		.63	.57	.456	.345

### Other Manufacturers — Great Deals

644009	1026	16	2-CR2016	PC Mount	Coin cell		.93	.83	.66	.504
236996	103	16	1-CR2032	PC Mount	Coin cell		.99	.89	.71	.53
643954	139	18	1-AA	Tabs	Single		.73	.62	.56	.42

\* Battery holder used in many personal computers

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

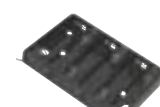


Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18

## "9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia. = 0.215"






Part No.	Fig.	Description	Dimensions (in.)			Pricing			
			L	W	H	1	10	100	1000
11280	1	3", 26 AWG, 6 prong battery snap 	1.0	.50	—	\$ .30	\$ .264	\$ .228	\$ .192
105794	2	Battery holder clip 	.63	.71	1.2	.28	.23	.16	.14
109154	3	6", 26 AWG, 6 prong battery snap 	1.0	.50	—	.21	.18	.165	.285
101470	3	10", 26 AWG, 6 prong battery snap 	1.0	.50	—	.35	.30	.252	.168
216452	4	6", 26 AWG, 6 prong battery snap 	1.0	.50	—	.34	.30	.20	.18

Fig. 1

Fig. 2

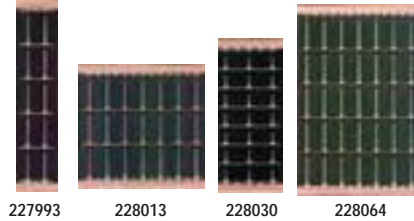
Fig. 3

Fig. 4

## PowerFilm. Flexible Thin Film Solar Modules

### Wireless Electronics Series

The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-thin profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.



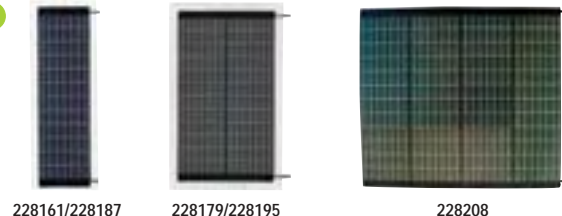
Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	4.99
228013	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	23.75	21.25	19.12
228099	MPT7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.85	22.82	17.12
228110	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

Blue Part No. = Limited Quantity Available

### WeatherPro Series

Quantity SAVE

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$33.91	\$25.43
228179	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187	PT15-75	15.4	50	10.3 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	27.74
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	51.40	38.55
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

## Mini-Panel Solar Cells

### Ready to Use! No Soldering

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

- Size: 3.8"L x 2.5"W
- Connection: lead

Part No.	Cross Ref. No.	VDC @ mA	Size (L x W)	1	10
200221	SOL4	2.0 @ 200	3.0" x 3.7"	\$10.65	\$9.43
215319	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39

200221





215327

## Panel Meters

### 0.6" High 3 1/2- & 4 1/2-Digit LCD Digital Panel Meters

















- Input ranges: 200mV, 20V, 200V, 500V
- Input impedance: >100MΩ
- Accuracy: ±0.5%
- Automatic polarity indication
- Size: 2.7"W x 1.7"H
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 246)

146835: Backlit display		Includes: Bezel		
Part No.	Cross Ref. No.	Digits	1	10 25
108388	PM-428 	3 1/2 ..	\$14.39	\$13.27 \$12.16
175951	PM-128 	3 1/2 ....	12.95	11.95 10.95
146835	PM-188BL 	3 1/2 ....	19.99	18.99 17.99
123140	PM-328 	4 1/2 ....	30.99	27.69 24.96

### velleman Analog Panel Meters

- Includes mounting hardware
- Size: A: 2.4"W x 1.8"H x 1.3"D  
B: 2.8"W x 2.4"H x 1.4"D

Panel-Mount Oscilloscope on Page 271

316507: Includes current shunt				
Part No.	Product No.	Range	Size	1 4
316603	AVM6015 	0 – 15VDC	A	\$10.29 \$8.71
316671	AVM7015 	0 – 15VDC	B	8.79 7.49
316638	AVM6030 	0 – 30VDC	A	8.79 7.49
316654	AVM7030 	0 – 30VDC	B	9.95 8.46
316718	AVM60150 	0 – 150VAC	A	8.79 7.49
316785	AVM60300 	0 – 300VAC	A	8.79 7.49
315301	AIM60005 	0 – 50μA	A	9.65 8.16
316523	AIM6050 	0 – 50mA	A	8.79 7.49
316486	AIM60100 	0 – 100mA	A	8.99 7.65
316558	AIM60500 	0 – 500mA	A	9.69 8.26
316566	AIM60500 	0 – 5A	A	9.75 8.31
316582	AIM705000 	0 – 5A	B	8.79 7.49
316494	AIM6010A 	0 – 10A	A	9.39 8.01
316507	AIM6030A 	0 – 30A	A	10.55 8.99

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Our enhanced website offers over thousands of additional products! Find products quickly and order them easily.



## Serial LCD Displays

• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

• One year warranty

Matrix Orbital LK162-12



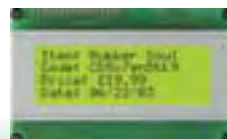
174166

Matrix Orbital VK202-25



281359

Matrix Orbital LCD2041



150957

Matrix Orbital LK204-25



157323

Matrix Orbital GLK12232-25-SM



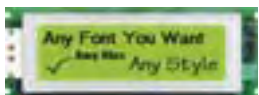
281391

Matrix Orbital GLK12232-25-WBL



281404

Matrix Orbital GLC24064



174182

Matrix Orbital GLK24064-25



281412

[www.Jameco.com](http://www.Jameco.com)Our enhanced website offers  
thousands of additional products.  
Find products quickly and order them easily!

Part No.	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
									1	10	25
174166	LK162-12	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	\$49.59	\$48.99	\$48.49
693791	LK162-12-E	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,15	3.2 x 1.4 x 1.1	2.5 x 0.7	63.99	62.99	62.25
693708	LK162-12-GW	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,12,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.59
693812	LK162-12-GW-E	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,12,13,15	3.2 x 1.4 x 1.1	2.5 x 0.7	59.59	59.39	59.19
693863	LK162-12-GW-V	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,12,13,16	3.2 x 1.4 x 1.1	2.5 x 0.7	51.39	50.37	49.37
693783	LK162-12-IY	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,14	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
693839	LK162-12-IY-E	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,14,15	3.2 x 1.4 x 1.1	2.5 x 0.7	59.59	59.39	59.19
693960	LK162-12-IY-V	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,14,16	3.2 x 1.4 x 1.1	2.5 x 0.7	51.39	50.37	49.37
1536878	LK162-12-R	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
693821	LK162-12-R-E	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,15,17	3.2 x 1.4 x 1.1	2.5 x 0.7	63.99	62.99	62.25
693880	LK162-12-R-V	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,16,17	3.2 x 1.4 x 1.1	2.5 x 0.7	51.39	50.37	49.37
693855	LK162-12-V	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,16	3.2 x 1.4 x 1.1	2.5 x 0.7	51.39	50.37	49.37
281332	LK162-12-WB	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,19	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
693847	LK162-12-WB-E	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,15,19	3.2 x 1.4 x 1.1	2.5 x 0.7	59.59	59.39	59.19
693871	LK162-12-WB-V	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,16,19	3.2 x 1.4 x 1.1	2.5 x 0.7	51.39	50.37	49.37
174174	LK202-25	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
694129	LK202-25-E	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,15	4.6 x 1.5 x 1.1	3.1 x 0.7	68.55	66.49	65.17
693986	LK202-25-IY	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,14	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
694145	LK202-25-IY-E	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,14,15	4.6 x 1.5 x 1.1	3.1 x 0.7	78.29	76.99	75.69
694090	LK202-25-IY-V	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,14,16	4.6 x 1.5 x 1.1	3.1 x 0.7	61.19	59.37	57.58
693978	LK202-25-GW	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,12	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
694137	LK202-25-GW-E	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,12,15	4.6 x 1.5 x 1.1	3.1 x 0.7	68.55	66.49	65.17
694014	LK202-25-GW-V	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,12,16	4.6 x 1.5 x 1.1	3.1 x 0.7	61.19	59.37	57.58
693994	LK202-25-R	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,17	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
694153	LK202-25-R-E	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,15,17	4.6 x 1.5 x 1.1	3.1 x 0.7	68.55	66.49	65.77
694102	LK202-25-R-V	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,16,17	4.6 x 1.5 x 1.1	3.1 x 0.7	61.19	59.37	57.58
694006	LK202-25-V	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,16	4.6 x 1.5 x 1.1	3.1 x 0.7	61.19	59.37	57.58
281341	LK202-25-WB	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10	4.6 x 1.5 x 1.1	3.2 x 0.7	58.99	56.99	53.49
694161	LK202-25-WB-E	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,15	4.6 x 1.5 x 1.1	3.1 x 0.7	68.55	66.49	65.77

\*1. For a power supply, Jameco recommends P/N 164101, pg 237

2. Includes instruction codes for character generation, cursor control, printing, etc.  
(Examples for Stamps in PBASIC included)

3. Manual and software included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature

7. Connect 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack® accepts RS232, CMOS or TTL signal

12. Grey text/white background

13. Built-In font provision for up to 8-user define characters, software controlled contrast and brightness, use of up to 12-key with 10-key buffer, horizontal or vertical bar graphs

14. Inverse yellow

15. Extended temperature

16. Wide voltage range +9 to +155VDC

17. Inverse red

18. Wide voltage range with efficient switching power supply (+9 to +35VDC)

19. White text/blue background

20. Color of illumination: white/ice blue

+ This product is a special order, non-cancelable, non-returnable and may take 2-4 weeks to ship.

RoHS compliant product


























This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## Serial LCD Displays (Continued)

**Lower \$\$\$**

- One year warranty
- For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

Part No.	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
									1	10	25
694111	LK202-25-WB-V 	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,16	4.6 x 1.5 x 1.1	3.1 x 0.7	\$61.19	\$59.37	\$57.58
281359	VK202-25	20 x 2 w/ keypad interface	1200 - 19,200	5.0V @ 130mA	Y	1,7,10	4.6 x 1.5 x 0.9	2.8 x 0.5	88.99	84.99	82.99
150957	LCD2041 	20 x 4	1200 - 19,200	5.0V @ 10mA	Y	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	59.95	59.45	59.00
157323	LK204-25 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	68.99	66.99	65.59
694217	LK204-25-E 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,15	3.9 x 2.4 x 1.2	3.0 x 1.0	79.59	78.39	76.99
694225	LK204-25-GW-E 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,12,15	3.9 x 2.4 x 1.2	3.0 x 1.0	79.59	78.39	76.99
694250	LK204-25-GW-V 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,12,16	3.9 x 2.4 x 1.2	3.0 x 1.0	71.99	70.29	68.99
694170	LK204-25-IY 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,14	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
694233	LK204-25-IY-E 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,14,15	3.9 x 2.4 x 1.2	3.0 x 1.0	79.59	78.39	76.99
694276	LK204-25-IY-V 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,14,16	3.9 x 2.4 x 1.2	3.0 x 1.0	71.99	70.29	68.99
694241	LK204-25-R-E 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,15,17	3.9 x 2.4 x 1.2	3.0 x 1.0	79.59	78.39	76.99
694268	LK204-25-R-V 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,16,17	3.9 x 2.4 x 1.2	3.0 x 1.0	71.99	70.29	68.99
694284	LK204-25-V 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,16	3.9 x 2.4 x 1.2	3.0 x 1.0	71.99	70.29	68.99
694188	LK204-25-WB 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,19	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
694196	LK204-25-WB-E 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,16,19	3.9 x 2.4 x 1.2	3.0 x 1.0	79.59	78.39	76.99
694209	LK204-25-WB-V 	20 x 4 w/ keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,16,19	3.9 x 2.4 x 1.2	3.0 x 1.0	71.99	70.29	68.99
281391	GLK12232-25-SM 	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 250mA	Y	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	65.99
694356	GLK12232-25-SM-WB 	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 22mA	Y	1,8,20	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	66.09
281404	GLK12232-25-WBL 	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	74.99	73.99	71.19
694364	GLK12232-25-WBL-WB 	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 18mA	Y	1,8,20	3.9 x 2.4 x 0.4	2.7 x 0.8	77.99	75.99	73.39
174182	GLC24064 	240 x 64 w/ graphics	1200 - 19,200	5.0V @ 31mA	Y	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	165.99	161.69	157.49
281412	GLK24064-25 	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,9	7.1 x 2.6 x 1.1	5.0 x 1.3	<del>\$176.99</del> 168.99	164.99	162.99
694372	GLK24064-25-GW 	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,12	7.1 x 2.6 x 0.7	5.0 x 1.3	168.99	160.99	153.99
694381	GLK24064-25-WB 	240 x 64 pixels w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,19	7.1 x 2.6 x 0.7	5.0 x 1.3	268.99	160.99	153.99

\* This product is a special order, non-cancelable, non-returnable and may take 2-4 weeks to ship.

### Scott Edwards Electronics, Inc.

## Serial LCD Displays

#### Scott Edwards ILM-216L



150990

#### Scott Edwards BPI-216N



133129

#### Scott Edwards SGX-120L



158166

#### Scott Edwards BPP-440L



136485

Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
150990	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Y	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	\$48.95	\$44.09	\$39.99
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V - 5.5V @ 3mA	N	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	59.95	53.99	48.99
158166	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	9V bat. or 5.0V @ 45mA	Y	1,2,5	3.1 x 1.9 x 0.8	2.6 x 1.1	119.95	101.96	95.05
136485	Scott Edwards	BPP-440L	40 x 4	1200 - 9600	5.0V @ 10mA	Y	1,2,11	7.5 x 2.2 x 0.9	6.7 x 1.7	149.95	143.55	136.37

\*1. For a power supply, Jameco recommends P/N 164101, pg 237

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)

3. Manual and software included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature

7. Connect 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack\* accepts RS232, CMOS or TTL signal

12. Grey text/white background

13. Built-In font provision for up to 8-user define characters, software controlled contrast and brightness, use of up to 12-key with 10-key buffer, horizontal or vertical bar graphs

14. Inverse yellow

15. Extended temperature

16. Wide voltage range +9 to +15VDC

17. Inverse red

18. Wide voltage range with efficient switching power supply (+9 to +35VDC)

19. White text/blue background

20. Color of illumination: white/ice blue

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

For a power supply,  
**Jameco recommends**  
**P/N 164101, pg 237**



## Parallel LCD Displays



- For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).
- 90-day Jameco warranty

**Quantity SAVE**

### EPSON EA-D16015AR

- 16 x 1 characters
- 2.5 x 0.5" display



644025

### Ampire AC-162A

- 16 x 2 characters • 2.5" x 0.7" display



171716

### Hantronix HDM716216H-4-H0AF

- 16 x 2 characters • 3.3" x 0.9" display



658881

### Hantronix HDM716216H-B-P00P

- 16 x 2 characters • 2.4" x 0.6" display



658890

### Hantronix HDM716216L-7-8C0

- 16 x 2 characters • 3.9" x 0.9" display



658988

### PicVue PVC160206QYL04

- 16 x 2 characters • 2.4" x 0.6" display



365982

### Tinsharp KEST1602A-08

- 16 x 2 characters • 2.5" x 0.4" display



1585979

**NEW**

### Optrex DM16433

- 16 x 4 characters
- 2.4" x 1.0" display



210761

### Samsung 9936

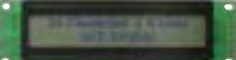
- 20 x 1 characters • 6.5" x 1.3" display



206615

### Hantronix HDM20216H-3-001P

- 20 x 2 characters • 3.3" x 0.7" display



658902

### Ampire AC-202A

- 20 x 2 characters • 3.3" x 0.7" display



171724

### Hantronix HDM20416H-300

- 20 x 4 characters
- 3.7" x 0.6" display



658873

### Solomon LM1200SGR

- 24 x 2 characters • 3.7" x 0.7" display



320101

### Solomon LM1030SGR

- 40 x 2 characters • 6.0" x 0.6" display



320039

### Ocular OM4021-WGS-01

- 40 x 2 characters • 6.0" x 0.6" display



277325

### Optrex 20-20191-2

- 40 x 2 characters • 5.8" x 0.5" display



215159

### Seiko Instruments DMC4024

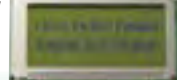
- 40 x 4 characters • 5.5" x 0.9" display



652332

### Hantronix HDM64GS12L-4-N31S

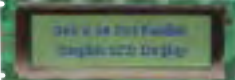
- 128 x 64 characters
- 2.4" x 1.3" display



658953

### PicVue PVG240602A

- 240 x 64 pixels • 5.2" x 1.5" display



277350

Let us know how we can better serve your electronics needs. Please send your requests to

**[NewProducts@Jameco.com](mailto:NewProducts@Jameco.com)**

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing			
											1	10	25	
644025	Epson	EA-D16015AR	16 x 1	5 x 7	8-bit	5.0V @ 1.0mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	\$9.95	\$7.15	\$6.04	\$4.53
171716	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Y	3, 5	3.4 x 1.2 x 0.5	2.5 x 0.7		14.15	13.49	12.78
658881	Hantronix	HDM716216H-4-H0AF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	4.8 x 1.7 x 0.4	3.9 x 0.9		11.95	10.49	7.87
658890	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	3.3 x 1.7 x 0.4	2.4 x 0.6		11.95	10.49	8.95
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5		12.55	10.67	8.00
658988	Hantronix	HDM716216L-7-8C0	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Y	5	4.8 x 1.7 x 0.6	3.9 x 0.9		16.95	14.95	11.95
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.2 x 0.5	2.4 x 0.63		12.69	10.79	9.45
1585979	Tinsharp	KEST1602A-08	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Y	—	3.1 x 1.4 x 0.4	2.5 x 0.40		13.95	13.49	11.95
210761	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	N	1, 5	3.4 x 2.4 x 0.3	2.4 x 1.0		22.95	19.95	18.69
206615	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V @ 3.0mA	N	2	7.2 x 1.6 x 0.4	6.5 x 1.3		17.99	15.29	11.45
658902	Hantronix	HDM20216H-3-001P	20 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	4.6 x 1.5 x 0.4	3.3 x 0.7		18.95	15.95	14.49
658970	Hantronix	HDM20216L-1-G30F	20 x 2	5 x 7	8-bit	5.0V @ 2.4mA	Y	5	4.6 x 1.5 x 0.6	3.4 x 0.7		18.95	16.95	14.49
171724	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Y	3, 5	4.6 x 1.5 x 0.4	3.3 x 0.7		24.95	22.49	20.25
658873	Hantronix	HDM20416H-300	20 x 4	5 x 7	8-bit	5.0V @ 2.2mA	N	5	3.9 x 2.7 x 0.4	3.7 x 0.6		24.95	22.49	18.95
658911	Hantronix	HDM24216L-2-E30P	24 x 2	5 x 7	8-bit	5.0V @ 1.4mA	Y	5	4.6 x 1.4 x 0.6	2.4 x 0.6		19.95	17.95	15.49
320101	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	4.6 x 1.4 x 0.4	3.7 x 0.7		15.59	13.25	9.94
320039	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	7.2 x 1.2 x 0.3	6.0 x 0.6		21.69	20.17	16.84
277325	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V @ 2.5mA	Y	5	7.2 x 1.3 x 0.6	6.0 x 0.6		22.45	19.13	14.34
215159	Optrex	20-20191-2	40 x 2	5 x 8	8-bit	5.5V @ 5mA	Y	4	7.2 x 1.4 x 0.4	5.8 x 0.5		22.45	19.08	14.31
658831	Hantronix	HDM402162H-4-S90P	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	7.2 x 1.3 x 0.4	6.1 x 0.6		24.95	22.49	18.95
658929	Hantronix	HDM40216H-4-S9RP	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	7.2 x 1.3 x 0.4	6.1 x 0.6		24.95	22.49	18.95
658937	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Y	5	7.2 x 1.3 x 0.6	6.1 x 0.6		32.95	29.49	24.95
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	N	—	7.5 x 2.1 x 0.4	5.5 x 0.9		39.95	33.96	25.47
658953	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Y	6	3.0 x 2.1 x 0.4	2.4 x 1.3		27.95	24.95	21.49

\*1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Built-in controller HD44780; 3. Controller KS0066U or equivalent; 4. Column driver: KS0063B; 5. For a power supply Jameco recommends P/N 164101, pg 237; 6. Dot Graphic LCD display

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

More Memory at [www.Jameco.com/Prod/Memory](http://www.Jameco.com/Prod/Memory)

## Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
311204	Intel Celeron® processor ♣	800	FCPGA-370 .....	\$42.09	\$37.88
183118	Intel Pentium® III processor	600	Slot 1 .....	99.95	96.43
151651	Intel Pentium® II processor	300	Slot 1 .....	89.95	85.45
190060	Intel Pentium® II w/ heat sink	233	Slot 1 .....	89.95	67.46
150501	Intel Pentium MMX® proc. ♣	233	376/PGA .....	69.95	62.95
118421	Intel 486DX2 processor ♣	66	168/PGA .....	19.95	16.96

♣ Pull = Extra Savings

## Legacy 3.5" Hard Disk Drives\*

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB ♣	EIDE/Ultra DMA33	1 year .....	\$39.95	\$29.96
151044	4.3GB ♣	EIDE/Ultra DMA33	1 year .....	49.95	45.95
146333	2.5GB ♣	EIDE/FAST ATA-2	1 year .....	33.29	29.95
124978	1.27GB ♣	IDE	1 year .....	30.25	27.22
118949	850MB ♣	IDE	1 year .....	49.95	44.96
115764	425MB ♣	IDE	3 mos. ....	45.95	43.65

\* Manufacturers may vary &amp; capacity may exceed specification ♣ Pull = Extra Savings

## 1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H • Weight: 1.4 lbs.

♣ Pull = Extra Savings

Part No.	Product No.	Mfr.	Color	1	10
115490	FD235	TEAC	Beige .....	\$23.94	\$21.54
189165	— ♣	Varies	Beige .....	13.14	11.40
249320	MPF920-Z	Sony	Beige .....	17.29	12.96
661108	D359M3D	Mitsumi	Black .....	20.95	18.95

## CPU Heat Sinks and Fans\*\* Quantity SAVE

Part No.	Description	Size (H" x W" x D")	1	10
206244	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30 .....	\$13.19	\$9.90
319951	Heat sink w/ fan for PIII slot 1	2.00 x 4.90 x 8.50 .....	9.85	7.39
181278	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67 .....	8.49	6.37
661087	Heat sink w/ fan for socket 370	1.55 x 2.36 x 2.44 .....	13.55	12.19
190545	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10 .....	13.55	12.19
645482	Heat sink w/ fan for socket 370	2.04 x 2.04 x 1.06 .....	10.95	9.49
319185	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59 .....	8.05	6.05
129226	Heat sink for 486 CPU - adhesive back	1.70 x 1.63 x 0.36 .....	2.95	2.21
174115	Heat sink w/ fan for 486 CPU w/ snap ⚡	1.93 x 1.96 x 0.93 .....	3.95	3.56
684748	Heat sink w/ fan for socket 7 (AT/ATX)	1.00 x 2.60 x 2.30 .....	8.99	8.59
308742	Heat sink w/ fan for 586 CPU w/ snap ⚡	0.73 x 2.05 x 1.94 .....	9.95	8.46

\*\* See website for photos

⚡ 14" lead wires

⚡ Blue Part No. = Limited Quantity Available

## Mounting Kits

Designed to mount most 3.5" media devices into standard 5.25" half height bays.



Part No.	Cross Ref.	Description	1	10	25
180857	HDB35 ⚡	3.5" hard drive mount kit (short) .....	\$3.35	\$2.95	\$2.21
32088	SMK	3.5" to 5.25" mount kit (beige faceplate) .....	5.89	5.29	4.79

## Thermoelectric Cooler Chips

- Cools down to -30°C (dependent on external temp.)
- Heat or cool by changing direction of current
- 20 AWG wire leads, 4" long
- Temperature = 60°C max.
- Current: 4A max. (172056: 8a max.)

Part No.	Cross Ref.	Volts	Watts	Couples*	Size (LxWxT)	1	10
172031	TEC30 ⚡	8.4VDC max.	19.7	71	1.2" x 1.2" x 0.2" ..	\$19.95	\$17.95
172056	TEC50 ⚡	15.4VDC max.	79.1	127	2.0" x 2.0" x 0.2" ..	33.75	29.35

\* Couples: # of P&amp;N type semiconductor pairs connected electrically in series

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♻️ RoHS compliant product

⚡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## MICRON

## Memory Modules

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
699528	MT8LSDT3264HG-133D2 ♣	256MB	133MHz	32M x 64	144 ..	\$109.99	\$106.76
699536	MT8LSDT3264HG-13ED2 ♣	256MB	133MHz	32M x 64	144 ....	119.57	114.76

## Legacy Memory Modules

Quantity SAVE

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
148419	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168 .....	\$65.95	\$59.95
148451	JEED07264	64MB	60ns SIMM EDO	16M x 32	72 .....	30.95	28.95
148460	8MBX36-60 ⚡	32MB	60ns SIMM	8M x 36	72 .....	40.95	30.71
148443	JEED07232	32MB	60ns SIMM EDO	8M x 32	72 .....	43.95	32.96
130729	JEED07208	8MB	60ns SIMM EDO	2M x 32	72 .....	2.69	2.40
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30 .....	4.95	3.71

## IntelliMover Kit

The IntelliMover kit lets you quickly and easily move email, music, photos, files, folders, settings and more from your old PC to a new PC. You can select file types, and settings that you want to move, so you do not end up cluttering your new PC with unwanted files.

- Transfers data and settings from one product version to another (e.g. Microsoft® Word 97 to Word XP)
- Transfers data and settings across operating systems
- Integrates intelligently on your new PC—there's no over writing of drivers or data files
- "Drag and Drop" individual files and folders between two PC's with the IntelliMover's file transfer utility and either data transfer cable



Part No.	Description	1	10
689910	IntelliMover kit with CD .....	\$24.95	\$22.45

## Index of Electronics-Industry Books



Part No.	Description	Page
215061	Easy Microcontrol'n, Beginner's Guide .....	6
137162	Electric Motors and Control Techniques .....	175
1581222	LAB-X1 Tutorial & Resource Book .....	300
215052	Microcontrol'n Apps, PIC Microcontroller Applications .....	6
200168	PIC BASIC Programming and Projects .....	6
174650	PIC Microcontroller Project Book, Beginner's Guide .....	5
183046	Programming and Customizing the PIC .....	5
210497	Serial Communications PIC Applications .....	5
210489	Time'n and Count'n, Intermediate Level PIC Apps .....	6
236945	Complete Embedded Ethernet and Internet .....	261
154771	Serial Port Complete .....	256
171900	USB Complete .....	254
174481	Electronic Pocket Reference .....	62
677994	Electronics Manufacturing .....	291
667391	Fabricating Printed Circuit Boards .....	305
126199	How to Test Everything Electronic .....	277
677986	Implementing Lead-Free Electronics .....	293
677951	Modern Solder Technology for Competitive Electronics Manufacturing .....	291
355231	Pocket PC Reference Book .....	257
88225	TTL Logic Data Book, Texas Instruments .....	20
136080	Troubleshooting & Repairing Consumer Electronics .....	44

Computer

Color Code Legend

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253

## Removable IDE HDD Enclosures For 3.5" Drive Bay

- For quick drive swapping
- Power LEDs
- Keylock for security

**196040:**

- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

**319775:**

- Size: 5.8"W x 8.9"D x 1.6"H
- Weight: 1.32 lbs.

**196031:**

- Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs.

**Includes:** Inner cable with IDE connector

Part No.	Description	1	10	25
196040	IDE encl. w/ insert	\$21.39	\$18.18	\$15.45
319775	IDE encl. w/ insert	16.95	11.66	10.49
196031	Insert for 196040	19.95	16.96	12.72



**Quantity SAVE**

## External IDE HDD Enclosure with Parallel Interface

An external HDD enclosure for IDE hard drives with a parallel port interface to be connected to a PC or laptop. No drivers needed. Windows® 98 and above will automatically detect hard disk drive.

- Parallel port interface
- Built-in fan and 110V power supply

**Includes:** Parallel cable and power cord

Part No	Description	1	5
249316	HDD external enclosure .....	\$17.95	\$16.16



## 3.5" Screwless USB Hard Drive Enclosure

- Screwless design
- USB 2.0 compliant
- IDE interface supports ATA, PIO, DMA, and UDMA hard drives
- Rugged aluminum body
- Plug and play, hot-swapping capability
- Power-on and read/write access LED indicators
- Size: 8.4"L x 4.7"W x 1.4"H

**Includes:** USB 2.0 cable, 12VDC @ 1.6A power supply and CD-ROM drivers

**Blue Part No.** = Limited Quantity Available

Part No.	Mfr. Part No.	1	5
344735	SD-U2PLA-35	\$31.45	\$29.89



## Front Panel Access Port

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC.

- 2 USB; 1 IEEE 1394; Line-In; Line-Out; RS-232 (9-pin male)



Tower not included

Part No.	Description	1	10
208004	Front panel port	\$34.95	\$26.21

## PS/2 Cable

- For use with switchbox P/N 149391, pg 259



Part No.	Description	1	10
204062	6' PS/2 cable .....	\$16.95	\$15.29

## Digital Video Interface Cable

- DVI cable for flat panel LCD monitors and high-end video graphics cards
- Connector: DVI-D single link type
- Length: 6'



**Quantity SAVE**



Part No.	Description	1	10	100
320346	DVI cable .....	\$11.49	\$9.95	\$7.46

## CD-ROM Audio Cables & Accessories



Part No.	Connection from Sound Blaster to	Length	1	10	50
127546	Sony/MPC2 	18"....	\$2.95	\$2.51	\$1.88
168612	Universal 	18".....	4.95	4.46	3.35
Part No.	Description		1	5	10
208514	Paper envelope 25 pk. ....		\$2.49	\$2.25	\$1.99

## Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

**NEW**



Part No.	Description	1	5
249308	Business card CD-R kit .....	\$4.95	\$3.46

## USB Complete

**Lakeview** (3rd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (572 pages, 2005)

- Size: 7.0" x 9.0"
- Weight: 1.9 lbs.



Part No.	Description	Price
171900	USB Complete Book .....	\$49.95

## USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

- 10 year data retention
- Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at [www.Jameco.com](http://www.Jameco.com)



Part No.	Description	1	10
217787	128MB .....	\$25.39	\$22.85
687682	128MB (PNY) .....	17.95	16.49
687738	128MB .....	15.95	13.95

## Mobile USB Fan/Light

Take advantage of a great deal on this innovative personal USB-powered fan and light for laptop computing! You'll enjoy the added comfort of features like a flexible gooseneck mount. Fan runs on a quiet motor with soft nylon blades. Mobile USB light allows you to illuminate your keyboard during.



Part No.	Description	Price
256461	Mobile USB fan	\$8.99
256436	Mobile USB light	10.55

## Digital USB Voice Recorder

*Pocket "secretary" captures all your great ideas.*

Record up to 396 addressable messages totaling 9 hours (SP) or 18 hours (LP). They can be meetings, phone conversations, or audio from external devices, all in flawless digital clarity. USB connectivity quickly downloads your recordings to your PC.

**Includes:** Earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.



Part No.	Description	Price
237198	USB voice recorder, 9-18 hrs. ....	\$108.95

## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs.

- Two-year warranty

**System requirements:** VGA-based PC, DOS 3.0 or higher, 640kb RAM or larger

**Includes:** PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	10
167193	Video signal pro .....	\$89.95	\$81.65



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For SanDisk Memory Products, visit our website today!

## Flat Panel Speaker System



- Magnetically shielded
- Designed for multimedia use
- Ultra thin satellite speaker and 3" subwoofer cone type speaker
- Frequency response: 80Hz-16kHz
- Power output: speakers - 1W + 1W<sub>RMS</sub> subwoofer - 5W<sub>RMS</sub>
- Front access LED, power, and volume controls
- Size: satellite - 5.0"W x 7.5"H x 2.5"D subwoofer - 5.75"W x 5.5"H x 6.6"D

**Includes:** Power adapter

Part No.	Description	1	10
382740	Flat panel speaker .....	\$18.89	\$17.49

## PC Speakers

Perfect for desktop PCs with limited amount of space. Compatible with any desktop PC.

- 3.5mm male stereo plug
- Size: 4.7"H x 3.0"W x 4.0"D



**Quantity SAVE**

Part No.	Cross Ref. No.	1	5	10
311079	5065-5746 .....	\$13.59	\$11.55	<b>\$8.66</b>

## Committed To You

We're committed to providing you with the best service in the industry.

## Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Description	1	10	50
135247	Microphone  .....	\$4.49	\$3.99	\$3.65

## E-Mail Desktop Microphone

*Add your voice to e-mail messages, with the touch of a button!*

This revolutionary desktop device will change the way you use e-mail! Simply press a button and speak into the omnidirectional condenser mic, and the technology does the rest. Included software facilitates file-management.



Part No.	Description	Price
315070	E-mail desktop microphone .....	\$41.95


# Monitors & Video Controllers

## 10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12.0"D x 9.1"H • Weight: 15 lbs.



**Includes:** Manual

Part No.	Description	1	10
253067	10" B/W monitor  .....	\$121.05	\$88.84

**Lower \$\$\$**


## 5.6" Color TFT Monitor

**NTSC Format**

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H • Weight: 2.6 lbs.



**Includes:** RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702	5.6" TFT color monitor  ...	\$279.95	\$259.95

## 4" TFT LCD Monitor

**NTSC Format**

- TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4-position Molex-type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.



Part No.	Description	1	10
172742	4" color LCD monitor .....	\$161.55	\$151.45

## XBOB-NC Video Text Module

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format. The command set is nearly identical to that of our popular BOB-3 module (see right), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.



- Higher display density; 40x17 characters (680 max.)
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

Part No.	Description	1	10
283768	XBOB video text module .....	\$189.95	\$179.99
237243	9VDC power supply .....	1.69	1.51
283776	Serial cable .....	9.95	8.95


## BOB-3 Video Text Module



BOB-3 is Decade's third-generation low-cost video text overlay module. BOB-3 lets your microcontroller or PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable characters, BOB-3 supports pseudo-graphics and multiple languages. BOB-3 generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control BOB-3 through a fast RS-232 style data link, much like a simple serial printer. BOB-3 is compatible with most microcontroller chips and modules, including the BASIC Stamp.

- Higher display density; 40x17 characters (680 max.)
- 254 ROM character patterns plus 63 user-definable RAM characters
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines) • Character size control
- Faster & more reliable host communication
- Software-controlled digital outputs (6)
- Improved automatic video mode control

 **Blue Part No.** = Limited Quantity Available

Part No.	Description	1	10
283733	BOB-3 video text module  .....	\$99.95	\$94.95



## BOB-4 Video Text Module

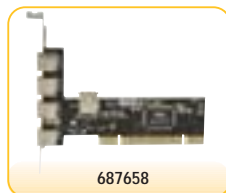


BOB-4 is Decade's fourth-generation low-cost video information overlay module.

- Simple hookup (DC, serial data, video I/O)
- Prints plain ASCII text in default configuration
- High display density; up to 480x240 (NTSC) or 480x288 (PAL)
- Arbitrary font sizes and proportional font support
- Vector graphics drawing commands
- Industry-standard ANSI control protocol (ECMA-048)
- Text crawl (single-line smooth horizontal scroll)
- Async, Synchronous, and SPI host communication options
- Automatic video mode control (local/genlock)
- Customer-configurable video standards (NTSC/PAL)
- Stand-alone operation for simple source ID, target reticle, etc.
- Software-controlled digital outputs (5)
- Consumes only 1/2W at +5VDC
- Extended production lifetime; no OSD chips!
- Firmware can be upgraded in the field

Part No.	Description	1	10
1537475	BOB-4 video text module .....	\$99.95	\$94.95

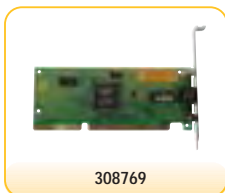
 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



687658



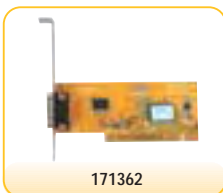
285510



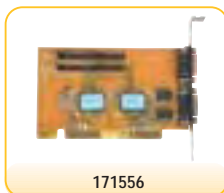
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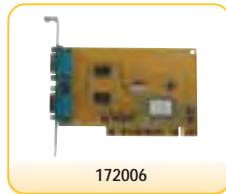
355039



171362



171556



172006



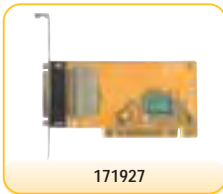
171547



171660



344903



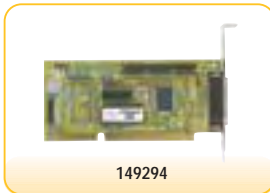
171927



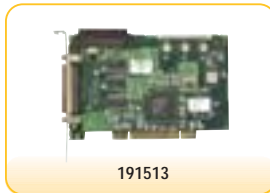
131318



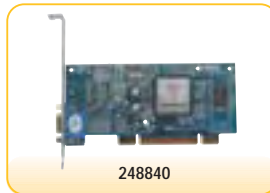
291901



149294



191513



248840



364111

## USB Interface Card

Quantity SAVE

SALE

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
687658	—	IOC-3500	PCI	4 ext / 1 int	USB	32-bit, PCI, VT6202/6212 USB 2.0 Host controller chip, REV 1.1 compliant	\$14.95	\$14.19

## Network Interface Cards

285510	—	905B ♣	PCI	1	RJ-45	IEEE 802.3 and 802.3u, N-way 10/100 auto negotiation.	\$11.99	<del>\$8.99</del>
308769	3-COM	3C509B-TPO ♣	ISA	1	RJ-45	IEEE 802.3i (10Base-T) and IEEE 802.3 (10Mbps) compliant.	20.99	<del>16.04</del>
355039	GetOn	C130	PCMCIA	—	Wi-Fi	32-bit cardbus interface, IEEE 802.11b compliant, wireless data-rate (1Mbps to 11Mbps), supports Windows® 98/2000/ME/XP.	17.59	<del>13.19</del>

♣ Pull = Extra Savings

## Serial Interface Cards

171362	—	4025A Ⓡ	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550.	\$38.95	\$35.95
171556	—	99378 Ⓡ	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/1/15 and address jumper configurable, dual 16C550 DB9 male.	32.85	28.75
172006	—	99467 Ⓡ	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	48.45	43.65
171547	—	99468 Ⓢ	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	129.95	116.95
171660	—	99469 Ⓢ	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	<del>134.95</del>
344903	SYBA	SD-PCI-1S Ⓢ	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.49	26.15

## Parallel Interface Card

171927	—	4008A Ⓡ	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	\$39.95	\$35.95
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## Super I/O Controller Cards

131318	—	KW-557A Ⓢ	ISA	—	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART).	\$29.95	\$26.95
291901	—	MCT-IDEFH-2	ISA	—	Mult.	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports.	23.99	20.39
149294	—	CI-2020 Ⓢ	ISA	—	50-pin F	DOS, Windows® NT/95, OS/2 Network, SCO UNIX, internal and external SCSI connectors.	32.25	28.99
191513	Adaptec	AHA-2940U2B Ⓢ	PCI	—	68-pin F	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, internal/external Ultra SCSI2 ULTRA II SCSI 68-pin connectors.	87.95	79.14

Ⓢ Blue Part No. = Limited Quantity Available

## Video Graphics Cards

248840	—	PS32985DR-8MB	PCI	—	HDDB15	Savage IX 8MB graphics accelerator, built-in direct draw accelerator and NTSC/PAL video encoder 4-bit resolution.	\$23.85	\$21.44
364111	ATI	109-54100-00	PCI	—	HDDB15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible.	29.99	28.49

## Serial Port Complete

**Lakeview Research** Provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)

Part No.	Description	Size	Wt. (lbs)	Price
154771	Serial Port Complete	7.0" x 10.0"	1.4	\$39.95



We're Listening to What You Need

Our goal is to provide you with more of what you want.  
Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

Ⓡ RoHS compliant product

Ⓢ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

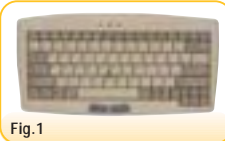


Fig. 1

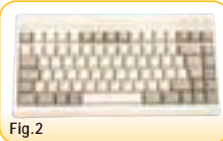


Fig. 2



Fig. 3



Fig. 4

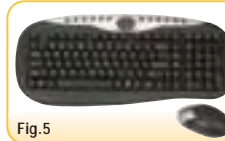


Fig. 5



Fig. 6



Fig. 7

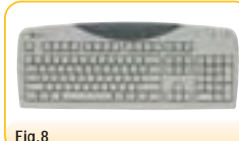


Fig. 8



Fig. 9



Fig. 10

### JAMECO ValuePro USB Keyboard Adapter

- USB-A female to 6-pin mini DIN male (PS/2)

Part No.	1	10
316832	\$1.79	\$1.59



						Quantity SAVE Lower \$\$\$					
Part No.	Mfr.	Product No.	Interface	Description	Fig.	Size (L" x W" x H")	Wt. (lbs.)		1	10	25
311183	OKI	HMB-631PUS	PS/2	84-key soft touch mini keyboard w/ track point mouse.	1	12.6 x 6.2 x 1.0	5.0		\$35.59	\$30.25	\$25.71
114868	—	MCK-84SX	5-pin DIN	84-key tactile keyboard, Windows® 95 compatible.	2	12.8 x 6.6 x 1.0	2.4		44.95	40.45	35.05
211756	—	WK-540	5-pin DIN	88/89-key soft touch keyboard w/ touchpad, Windows® compatible.	3	11.4 x 8.5 x 1.2	2.3		59.95	53.95	48.95
639550	IONE	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black).	4	15.9 x 6.5 x 1.3	2.1		39.95	35.95	32.49
319661	IONE	Gemini-M1	PS/2	104-key soft touch wireless keyboard w/ 12 multimedia and function keys. and 2-button optical scroll mouse. 5AA batteries included.	5	17.6 x 7.5 x 1.6	2.2		22.95	20.65	16.55
173649	—	SUN 3201256-1	PS/2	104-key tactile keyboard w/ 12 function keys, separate arrow & numeric keys.	6	18.2 x 7.0 x 1.5	2.7		12.95	11.01	8.26
308101	Labtech	967360-0403	PS/2	104-key RF keyboard and 3-button optical scroll mouse, multimedia hot-keys.	7	18.0 x 8.7 x 1.6	4.5		38.39	34.35	30.31
455603	—	KM-2501	PS/2	104-key soft touch w/ multimedia & 12 function keys.	—	17.5 x 6.0 x 1.2	1.8		16.25	13.00	9.75
263521	—	RT3604	USB	104-key soft touch USB keyboard w/ 12 function keys, separate cursor. and numeric keypad. Extra ports on side and rear.	8	18.6 x 7.8 x 3.8	3.8		14.19	10.54	6.89
319812	PC Concepts	iCIA	PS/2	107-key soft-touch keyboard w/ programmable function keys for internet/ utility/office, and multimedia. Software included.	—	17.5 x 5.7 x 0.8	1.8		10.49	8.92	7.58
354950	COMPAQ	KB-9965	PS/2	107-key soft-touch keyboard w/ 12 function keys.	—	18.5 x 6.5 x 1.4	1.3		12.95	11.65	8.74
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/built-in speakers.	—	18.5 x 10.0 x 3.2	2.5		19.95	17.95	15.95
265375	ITRON	Scorpius-22RB	Serial	22-key serial tactile keypad w/ 2-key rollover and auto repeat function. Includes manual and drivers.	9	6.2 x 4.2 x 1.3	0.8		39.95	35.95	32.49
1537109	Panova	25551	USB	18-key USB tactile keypad.	10	4.3 x 3.0 x 0.5	0.2		29.95	27.95	24.95



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

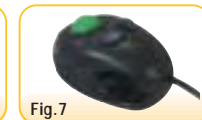


Fig. 7

Part No.	Manufacturer	Product No.	Type	Interface	Description	Fig.	Size (L" x W" x H")	1	10	25
395612	IONE	LYNX-L7R	Optical	USB-PS/2	Mini optical mouse w/ retractable cable and USB-PS/2 adapter	1	3.9 x 2.3 x 1.5	\$29.95	\$26.95	\$24.25
685943	—	OW7751	Mech. Ball	USB	3-button with scroll; black	—	4.8 x 2.5 x 1.5	14.95	13.49	11.95
687746	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter; black	—	4.6 x 2.6 x 1.5	18.95	16.95	15.25
265471	—	—	Optical	USB	Mini optical mouse	3	3.7 x 2.2 x 1.3	12.95	11.01	9.36
265447	Memorex	32022378	Optical	PS/2	Wireless, 5-button optical ScrollPro w/ PS/2 to USB adapter	4	4.9 x 3.0 x 1.6	26.95	25.60	24.55
305082	IONE	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter	5	5.6 x 4.7 x 1.9	29.95	26.95	24.25
283223	—	—	Mech. ball	DB9 female	3-button serial	6	4.3 x 2.6 x 1.6	6.15	5.23	3.92
121363	—	—	—	—	Mini mouse pad	—	7.0L x 5.5W	3.90	3.24	2.40
656907	—	FDM-G11	Trackball	PS/2	3-button off-table trackmouse; gray	7	3.0 x 2.0 x 2.0	16.95	15.95	13.49
657011	—	FDM-G11-USB	Trackball	USB	3-button off-table trackmouse; black	7	3.0 x 2.0 x 2.0	17.95	16.95	14.49

## Clip-on Mouse Pad

### Organize and maximize your workstation.

Tired of trying to work without enough space? Free up your desk space with this convenient clip-on mouse platform. No drilling required—clamps on securely to your desk or workstation without damaging the desk. This unit also stores completely below your desk, so you don't have to see it when it's not in use. Includes a cord clip to keep mouse cords tangle-free and in position.

Blue Part No. = Limited Quantity Available



Part No.	Description	Price
249105	Clip-on mouse pad	\$7.49

## Pocket PC Reference Book

**Sequoia Publishing** Pocket PC Reference 13th edition includes troubleshooting tools, wiring diagrams, connectors and pin outs, commands for Windows® XP and UNIX, CDROM drive configuration data, hard drive specifications, PC hardware, ASCII numbers, CPU processor specifications and more. (1088 pages, 2004)

- Size: 4.0" x 6.0"
- Weight: 0.87 lbs.

Part No.	Description	Price
355231	Pocket PC Reference	\$15.15



See complete listing of books on page 253.

## 150 to 400-Watt PC Power Supplies

Quantity SAVE



### ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	10	25
422001	Seasonic	SS-600HT Active PFC	600	+3.3/30, +5/30, +12/18, +12/18, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	\$145.05	\$133.40	\$126.20
422094	Seasonic	SS-500HT Active PFC	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	125.05	115.00	108.80
421999	Seasonic	SS-460HS Active PFC	460	+3.3/30, +5/30, +12/16, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	4.3	95.05	87.40	82.70
308814	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
673379	Seasonic	SS-401HT Active PFC	400	+3.3/30, +5/30, +12/14, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	76.05	68.40	62.50
652607	Seasonic	SS-400HT-80 Active PFC	400	+3.3/30, +5/30, +12/14, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.5	99.05	91.10	86.10
673352	Seasonic	SS-350HS Active PFC	350	+3.3/22, +5/21, +12/10, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	60.49	54.19	49.99
673361	Seasonic	SS-301HT Active PFC	300	+3.3/20, +5/20, +12/8, +12/14, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	47.89	43.09	40.26
652594	Seasonic	SS-300SFD-80 Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	3.9 x 4.9 x 3.0	2.5	66.05	60.70	57.00
427928	Seasonic	SS-300SFD Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	51.05	46.90	44.40
673344	Seasonic	SS-300HS Active PFC	300	+3.3/20, +5/20, +12/8, +12/14, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	43.75	39.32	36.90
1537310	Sparkle Power	FSP-300-60ATV*	300	+3.3/28, +5/30, +12/15, +5VSB/2, -5/0.3, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 244)	UL/CSA/TUV	6.0 x 5.6 x 3.5	4.0	26.95	23.95	19.95
422123	Seasonic	SS-250SFD Active PFC	250	+3.3/18, +5/21, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	3.9 x 4.9 x 3.0	2.7	42.05	38.60	36.50
1536915	Potrans	PP-253XA	250	+3.3/14, +5/25, +12/8, +5VSB/2 -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 244)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.5	39.95	35.95	32.35
319994	3Y Power Technology	AP-1250-1112	250	+3.3/20; +5/25; +12/12 +5VSB/3; -5/5; -12/0.5	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 244)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.9	33.25	31.65	23.75
421657	Powertronic	PKI800T3*	200	+3.3/14, +5/22, +12/6, +5VSB/0.1, -5/5, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 244)	UL/CSA/TUV	6.0 x 5.6 x 3.3	3.3	15.95	12.76	9.57
196189	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 244)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	35.65	30.30	22.73

### AT Power Supplies

692414	Autec	PCB-5300-2000	326	+5/30, +12/14, -12/0.5, -5/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050)	UL/CSA/TUV	6.0 x 5.6 x 3.4	3.0	\$29.95	\$26.95	\$23.95
692393	Autec	PCB-5300-4043†	326	+5/30, +12/14, -12/0.5, -5/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050)	UL/CSA/TUV	6.0 x 5.6 x 3.5	3.6	29.95	26.95	23.95
1537424	Sparkle Power	SPI-250G*	250	+5/26, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.1	34.95	29.95	24.95
172823	Mean Well	AA-230*⚡	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46

\* See photo above

† With switch

⚡ Pull = Extra Savings

## 150-Watt DC-to-AC Inverter

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Peak power surge capable
- Overload & thermal protection
- Battery low shutdown
- Dimensions: 4.8"L x 2.9"W x 1.8"H
- Weight: 1.3 lbs.



Part No.	Description	1	10	25
277182	150W auto plug ⚡	\$29.99	\$28.99	\$27.99

## 75 and 150 Watt DC-to-AC Inverters

- Optimum efficiency: 90%
- AC output frequency: 60Hz
- DC input voltage range: 10 - 15VDC
- Auto reset short-circuit protection
- Overload protection/low battery alarm/ low battery shutdown
- P/N 307811 has a built-in thermal cooling fan

⚡ Blue Part No. = Limited Quantity Available



307791

Part No	Description	Peak Surge	AC Output	Dimension	Price
307791	75W inverter⚡	200W	115VAC	4.8"L x 1.6"W x 2.4"H	\$26.95
307811	150W inverter	450W	110V ±5VAC	5.0"L x 1.9"W x 2.9"H	34.95

TRIPP-LITE

isobar®

## Surge Protectors



- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed
- Lifetime warranty

ULTIMATE LIFETIME INSURANCE

MADE IN USA

### Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686	IBAR12RM	1280	12 outlet, 2 isolated filters	4.7	\$119.95	\$107.99

### Isobar Premium Surge Protectors

18981	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	\$49.95	\$44.95
74544	ISOBAR 6 ⚡	2350	6 outlet, 3 isolated filters	2.7	54.95	53.25

### Isobar Ultra Premium Surge Protector

19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$63.74
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⚡ RoHS compliant product

⚡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Standard Surge Protectors

Economical and effective spike and noise suppression with diagnostic LEDs.

- 168954:** • \$20,000 Ultimate Lifetime Insurance  
• Up to 27,000 amp spikes • Weight: 1.2 lbs.  
**124337:** • \$75,000 Ultimate Lifetime Insurance  
• Up to 42,000 amp spikes • Weight: 1.6 lbs.

Part No.	Product No.	Joules	1	10
168954	Striker 7	750	\$12.54	\$11.99
124337	Super 7	2350	17.95	16.35

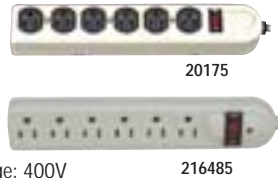


## 6-Outlet Surge Protectors

- 20175:**  
• Metal power strip  
• 3-prong, 4' power cord  
• Max. spike current: 4500A, 50 joules  
• Size: 12.3"L x 2.4"W x 1.3"H • Wt.: 1.5 lbs.

- 216485:**  
• Heavy-duty power cord (14AWG x 3)  
• Max. spike current: 4500A • Clamping voltage: 400V  
• Max. surge dissip.: 900 joules • Max. surge volt.: 6500V  
• RESET/OFF switch with built-in 15A circuit breaker • Weight: 0.9 lbs

Part No.	Product No.	1	10	100
20175	51W1-13206	\$11.15	\$10.00	\$8.87
216485	51W1-10206	6.95	6.25	5.59

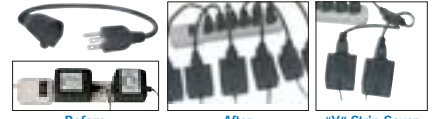


## Power-Strip-Saver Single Outlet and "Y" Double Outlet



Get full use of your power strips and UPS outlets with our high quality power strip outlet saver.

You can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.



Before After "Y" Strip Saver  
4 Outlets Blocked Every Outlet is Usable For extra adapters

- Length: 1 ft.
- Cord type: SVT
- Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	50
199778	AC power cord (black) 	\$2.03	\$1.86	\$1.67
208338	AC power cord (beige) 	1.45	1.37	1.30
208347	"Y" power-strip-saver 	5.95	5.63	5.42

## Save Big! Special Values!

New Lower Prices = Orange

Sale Priced Items = Yellow

Exceptional Quality Discounts = Green

More Computer Switchboxes at  
[www.Jameco.com/Prod/ComputerSwitchboxes](http://www.Jameco.com/Prod/ComputerSwitchboxes)


## Computer Switchboxes



### KVM Switchboxes

Quantity SAVE

Lower \$\$\$

Part No.	Mfr.	Fig.	Mfr. Part No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
114155	—	1	40H1-14402 	2-way keyboard / mouse switchbox (2PCs to 1 user)	HDB15 female / 5-pin DIN female	6.0 x 4.0 x 2.3	1.3	\$10.79	\$9.83
310826	—	2	KVM2717	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse; HDB15 female for monitor. Requires 9.5VDC@500mA power supply; recommend P/N 100175 pg 238	4.7 x 4.0 x 1.8	1.5	42.99	38.69
310842	—	3	2-PRT KVN-USB	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse; HDB15 female for monitor to PC connectors: two HDB15 male for monitor, two USB-A male; two 3.5mm jack	2.9 x 2.7 x 1.1	1.5	82.29	78.15
310834	—	4	KS104	4-way KVM switchbox (4 PC's to one user)	PS/2 female for keyboard & mouse; HDB15 female for monitor; recommend P/N 202180 pg 238 for power supply	7.4 x 2.9 x 1.3	7.1	112.49	84.36
149391	ATEN	5	CS-114A	4-way KVM switchbox (4 PC's to one user)	DB9 serial female / PS/2 keyboard & mouse; recommend P/N 204062 pg 254 for PS/2 cable. Includes manual and power supply	10.0 x 7.0 x 3.0	7.1	152.89	129.96
132249	—	6	40H1-25602	2-user switchbox (1PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable) pg 126	7.5 x 5.3 x 2.8	1.6	17.95	13.46
79177	—	7	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	19.95	17.95
134017	—	8	40H1-25604	4-user switchbox (1PC to 4 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable) pg 126	7.5 x 5.3 x 2.8	2.3	21.95	16.46

### Serial-to-PC Switchboxes



79126	—	9	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
183417	—	10	—	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	23.55	21.18

### Fax/Modem/Telephone-to-PC Switchbox

79142	—	11	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	\$11.94	\$10.74
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### Parallel Printer-to-PC Switchbox

20095	—	12	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	\$8.95	\$7.95
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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## USB Fast Ethernet Adapter

- Plug and Play
- IEEE802.3 (10 BaseT) and IEEE802.3 (100 BaseT) specification compatible
- USB Rev 1.0 and 1.1 compatible
- Supports OHCI and UHCI
- Self-powered
- 1 upstream USB port and RJ-45 port
- Supports Windows® 98/ME/2000/XP



Part No.	Description	1	5	10
310797	USB-Ethernet Adapter	\$21.69	\$19.55	\$17.55

## USB Modem Adapter

This UC-232 USB serial modem adapter provides an external plug and play RS232 modem connection for PCs, notebooks, laptops, and handheld computing devices that support the USB specification.



- Data transfer rate: determined by modem
- Power consumption: 90mA
- Power mode: bus powered
- Size: 3.2"L x 2.2"W x 0.9"H

**Includes:** DB-25 male connector and USB type A cable

☉ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
355696	USB modem adapter ☉	\$15.45	\$13.95

## UTP Ethernet Cable Tester

- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests



**Requires:** 9V battery (recommend P/N 151095, pg 246)

**Includes:** Zipper case

Part No.	Size (L x W x H)	1	10
115895	4.5" x 2.5" x 1.3"	\$31.15	\$27.99

## Modular Cable Tester

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.



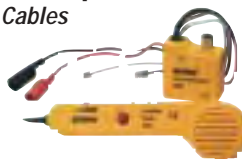
- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- One-year warranty
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

**Includes:** Manual and test cables

Part No.	Description	1	10
145710	Modular cable tester	\$84.95	\$76.49

## Tone Generator & Amplifier Probe For Tracing Wires & Cables

- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets



**EXTECH**

**Includes:** Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002	Tone gen. & amp. probe	\$79.99	\$71.99

## Network and CATV Cable Tester

Continuity tester for twisted pair cables and F-type coax cables.

- Tests for shorts, opens, miswires, and reversals
- Tests EIA/TIA568A and 568B, 10Base-T
- Shield detection test
- "F" connector for troubleshooting CATV and coaxial installations
- Tests installed wiring and jumper cables, shielded or unshielded twister pair cables (CAT5e/CAT5/CAT4/CAT3)
- Tests cable lengths from 3 ft. to 600 ft.
- Size: 3.25"H x 2.0"W x 1.25"D



**EXTECH**

**Includes:** 2 AAA batteries

Part No.	Product No.	Price
645634	CT100	\$29.95

## LANtest Network and Modular Cable Tester

- Tests 10Base-T, 10Base-2 thin ethernet cable, RJ45/RJ11 modular cables, 356A, TIA568A/568B and token ring cable, etc.
- Easy to verify cable continuity, open, short and miswire
- Can test the grounding
- Power switch provided for saving battery power



Part No.	Product No.	1	10	50
615136	45-5767-0000	\$122.75	\$110.49	\$99.45

## Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon/Xoff or hardware handshaking
- RS-232 interface (DB25 female)



**Quantity SAVE**

Part No.	Description	1	10	25
116581	Short haul modem ☉	\$29.95	\$25.46	\$19.10

## Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2
- Baud rate: 300 to 38,400bps
- Size: 4.0"L x 2.5"W x 1.0"H



**Includes:** AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935	Bi-converter ☉	\$59.94	\$53.94	\$47.88

## Bidirectional Serial-to-Parallel Converter

**115.2kbps, 512kB Buffer**

- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- DCE/DTE selectable
- Size: 3.8"L x 2.4"W x 1.0"H
- One-year warranty



**Includes:** 9VAC @ 200mA adapter

Part No.	Description	1	10
182983	Serial/parallel converter ☉	\$48.49	\$44.95

## RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-232: DB25 female connector
- RS-485: terminal block and RJ11 connections
- Input: 110VAC; except P/N 129218: 220VAC input
- Weight: 0.9 lbs.
- One-year warranty



117701

Now a European Version!

- 197931: Port powered (power adapter not included)
- Data rate: 100kbps

**122956:** Features RS-485SI; optical isolation: 2000V

**129218:** Features 220VAC input

**Quantity SAVE**

**Includes:** 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701	RS-232-485/422 ☉	\$59.69	\$53.51
197931	RS-232-485/422 ☉	69.95	52.45
122956	RS-232-485/422 OPT ISO ☉	124.79	93.59
129218	RS-232-485/422 (220 VAC) ☉	48.09	36.08

## More Cable Testers



See pages 277-278

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price?  
We'll beat that price by 10%, right down to our cost!

## IBM® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.

• Size: 8.7"W x 5.3"D x 1.1"H • Weight: 1.7 lbs.

Part No.	Description	1	10
226149	8-port hub	\$44.95	<b>\$33.71</b>

## External 3-Port USB Thumbhub

Expand your single USB port to a stacked 3-port thumbhub.

- USB Revision 1.1 compliant
- LED indicators uplink/down port communication, and OCP status
- Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
- Self-powered mode
- Compatible with Windows® 98/98SE/2000/ME/MAC OS8.5
- Size: 3.1"L x 0.8"W x 1.2"H

Part No.	Description	1	10
208451	3-port thumbhub	\$14.95	<b>\$14.49</b>

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H

**System Requirements:** PC with 75MHz min. Pentium® or equivalent; 16MB of RAM minimum, available USB-A port, Windows® 98 or later

Part No.	Product No.	1	5
527822	USB 2.0 dock	\$22.95	<b>\$15.95</b>

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

### USB-A Male to USB-A Male

Part No.	Description	1	10	25
326474	3' cable beige	\$1.55	\$1.39	\$1.29
229682	6' cable beige	1.65	1.49	1.39
229702	15' cable beige	2.85	2.59	2.49

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229594	6' cable clear	\$1.65	\$1.49	\$1.39
229607	10' cable clear	1.89	1.75	1.65
229614	15' cable clear	2.95	2.51	<b>1.88</b>

### USB-A Male to USB-A Female

Part No.	Description	1	10	25
222068	6' cable black	\$1.65	\$1.49	\$1.39
222076	10' cable black	1.89	1.75	1.65
222084	15' cable black	2.85	2.59	2.49

More USB cables on page 126

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Front panel: 0.12" thick
- Black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813



Includes: Mounting screws • Blue P/N = Limited Quantity

Part No.	Dimensions (In.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	10
132813	1.73	1.25	9.75	6.2	\$40.35	\$36.35
132822	3.46	3.00	9.75	7.9	51.79	46.97
132840	3.46	2.88	11.75	9.1	53.95	48.59
132847	5.22	4.75	11.75	10.6	63.95	55.99
132856	5.22	4.75	13.50	11.8	75.05	67.92
132864	8.56	8.00	13.50	15.4	94.95	84.95

## 19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Size: 19.0"W x 13.0"D x 1.75"H
- Weight: 18 lbs.



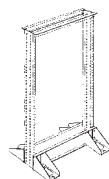
Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644	Rack mount KB drawer	\$249.99	<b>\$234.99</b>

## Relay Rack & Rack Panels

- Rack: Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84.0"H
- Dimensional weight: 70 lbs.

133751



229489



### 19" Wide Panel:

- 10-gauge black steel
- Rack screw: 10/32 screw; 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751	Relay rack	84"	\$159.95	\$147.00
229489	Rack panel (2U)	3.50"	10.95	10.35
229500	Rack panel (4U)	7.00"	14.85	14.23
229447	Rack screw (50 ea.)	—	8.25	7.45

## Front Panel Access Port

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC.



Tower not included

Part No.	Description	1	10
208004	Front panel port	\$34.95	<b>\$26.21</b>

## 19" Rack Mount CAT 5 Patch Panels

Our CAT 5 patch panels feature 110D punch locks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.

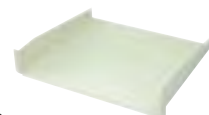


208784

Part No.	Description	1	10
208768	12-port patch panel	\$23.99	\$22.79
208784	24-port patch panel	44.05	42.09

## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H



Part No.	Description	1	10
149500	Cabinet mount plate	\$39.95	\$35.95

## Digital I/O Board TTL Level PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- 24-bit digital I/O
- Three 8-bit ports



Includes: InstaCal: installation & test utilities software

Part No.	Product No.	1	10
197827	PCI-DIO24	\$88.95	\$85.95

## Complete Embedded Ethernet and Internet Book

### Lakeview Research

Learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and internet communications. (482 pages, 2003)

- Size: 7.0" x 9.0" • Weight: 1.7 lbs.



Part No.	Description	Price
236945	Ethernet and Internet Book	\$44.95

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!

1-800-831-4242



## PowerSense™ Power-Over-Ethernet Mid Span Hubs

### PowerSense AX-6000 Series

- Current limited for short circuit protection with power isolation of 1500VRMS
- Supplies a full 15.4W for up to 8 devices as per IEEE 802.3af standards
- Two diagnostic LEDs
- Auto detects power requirements for safety and offers transparent 10/100Mb and management operation
- Support for all compliant IEEE 802.3af powered devices
- All chassis products feature a removable US power cord with IEC plug



#### 1 Slot Chassis with one standard 6500 module installed

Part No.	Product No.	Description	1	5	10
779093	AX-6108	8 power & data ports (10/100Mbps)	\$451.25	\$428.69	\$407.25
779106	AX-6108-RM	Optional 19" rackmount kit	18.99	18.05	17.15

#### 8 Slot Chassis with up to three 6500 modules installed

779114	AX-6524	24 power & data ports (10/100Mbps)	\$978.15	\$958.99	\$939.99
779122	AX-6516	16 power & data ports w/ 1 cover plate	786.59	770.79	754.99
779131	AX-6508	8 power & data ports w/ 2 cover plates	599.15	587.07	574.99



## PS5E HD Patch Panels

PS5E HD patch panels are robust and installer-friendly products by design, combining punch-down connectors and standard modular jacks. They are available in both BIX and 110 insulation displacement connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management.



Part No.	Product No.	Description	1	5	10
701241	AX100464	BIX patch panel, 1U, 24 port gray, T568A/B	\$99.19	\$94.23	\$89.49
701253	AX100465	BIX patch panel, 1U, 24 port black, T568A/B	99.19	94.23	89.49
701265	AX100472	BIX patch panel, 2U, 48 port gray, T568A/B	199.99	189.99	179.99
701277	AX100473	BIX patch panel, 2U, 38 port black, T568A/B	199.99	189.99	179.99
701289	AX100452	110 patch panel, 1U, 24 port black, T568B/A	108.69	103.25	98.09
701294	AX100454	110 patch panel, 2U, 48 port black, T568B/A	217.35	206.64	190.65



## Optimax Tool Kit

Conveniently packaged in a carrying case, this optimax tool kit includes tools, installation instructions and a training video in CD form required to terminate 900µm buffered optical fiber and jacketed optical fiber, install LC/SC or ST compatible mode and single mode connectors.

Includes: Installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, fiber stripper, cable stripper and training video



Part No.	Product No.	1	5	10
701302	AX100497	\$987.75	\$939.47	\$891.19



## Angled Management Bar Kit

This angled bar management kit is composed of an angled bar with 4 management devices each managing 6 cables. The short range installation bracket allows the management bar to be swiveled upward and maintain on the horizontal position and allows installation in tight spaces.



- Retrofittable to any patch panel or patch cord independent of manufacturer or performance
- Compatible to usual cable management solutions
- Swivelable and lockable
- Clear label identification

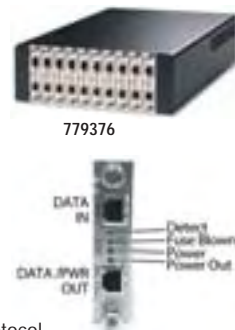
Part No.	Product No.	1	5	10
701310	AX102641	\$46.95	\$44.59	\$42.36

† This product is a special order, non-cancelable, non-returnable and may take 1 week to ship.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

### PowerSense AX-8000 Series:

- Individual power modules, hot swappable in the 19" rackmount ready chassis, use 1 per powered device
- Current limited for short circuit protection with power isolation of 1kV between ports for safety
- User replaceable fuses for recovery from power surge or lightning damage, quickly repair any module
- 4 diagnostic LEDs
- Removable US power cord with IEC plug
- Mix & match for compatibility with IEEE802.3af or legacy Cisco CDP power devices, 12V or 24V protocol



#### Chassis complete with 10 standard power chassis modules

Part No.	Product No.	Description	1	5	10
779350	AX-8310	10 pwr. & data modules, 12V protocol	\$669.75	\$636.25	\$604.45
779368	AX-8410	10 pwr. & data modules, 24V protocol	669.75	636.25	604.45
779376	AX-8510	10 pwr. & data modules, IEEE802.3af compatible	669.75	636.25	604.45
779384	AX-8610	10 pwr. & data modules, Cisco CDP protocol	748.55	734.27	719.99
700751	AX-8300HW	Double wide power & data module, 12V protocol	77.45	75.82	74.19

## Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8



### Category 6

Quantity SAVE

Part No.	Length	Color	1	10	50
219707	3 ft.	Gray	\$2.79	\$2.69	\$2.02
219731	25 ft.	Gray	9.39	8.92	6.69
219740	50 ft.	Gray	14.29	13.58	12.90
219854	3 ft.	Blue	2.79	2.69	2.56
219889	25 ft.	Blue	9.39	8.92	8.47
219897	50 ft.	Blue	14.29	13.58	12.90
220003	3 ft.	White	2.79	2.39	1.78
220011	7 ft.	White	3.99	3.87	3.68
220046	50 ft.	White	17.15	16.30	15.48
219900	3 ft.	Red	2.79	2.69	2.56
219934	25 ft.	Red	9.39	8.92	8.47
219942	50 ft.	Red	14.29	12.45	9.11
219803	3 ft.	Green	2.79	2.69	2.56
219838	25 ft.	Green	9.39	8.92	8.47
219846	50 ft.	Green	14.29	13.58	12.90
219758	3 ft.	Black	2.79	2.69	2.56
219782	25 ft.	Black	9.39	8.92	8.47
219791	50 ft.	Black	14.29	14.15	10.31
219969	7 ft.	Yellow	3.99	3.87	3.68
219993	50 ft.	Yellow	14.29	13.58	12.90

More CAT6 cables available on page 127

## What is Power-Over-Ethernet?

Power over Ethernet or PoE technology adds electrical power transmission to remote devices over standard twisted-pair cable in an Ethernet network. This allows powering IP telephones, wireless LAN access points, webcams, Ethernet hubs, computers, and other appliances where it would be inconvenient or unfeasible to supply power separately.

The technology is somewhat similar to POTS telephones, which also receive power and analog data via the same cable. The most important benefit of PoE is that it works with an unmodified Ethernet cabling infrastructure.

**Practical Practices**  
 Money Saving Tips for the Engineer



## DigiVue™ Complete Digital Video Recording Security System

### EDV-XV425 Video Capture Card:

- 60fps per card
- Monitors multiple IP addresses
- Supports multiple card installations
- 4-channel video and 1-channel audio
- Supports real time WAN/LAN and internet monitoring



### EC-624 Outdoor Color Day/Night Camera:

- 1/4" CCD imaging chip • 30 feet IR range
- 0.1 lux sensitivity • Built-in electronic iris control
- 420 TV line resolution • 6mm lens with F2.0

### ECMD-01 Micro Dome Color Camera:

- CMOS imaging chip • 380 TV line resolution

**Includes:** PCI video capture card, 2 outdoor color day/night cameras, 2 micro dome color cameras, video recording software w/ drivers, four 50' video/power cables and 4 power supplies for the camera

Part No.	Product No.	1	10
639584	EDV-XV425 kit	\$449.99	\$405.00

## VISEC Home Office Security System

Turns your PC into a powerful surveillance system in 5 minutes.

- Watch live or recorded video from anywhere in the world via the Internet
- Record months of video at a time
- Records when motion is detected, incrementally or continuously
- Be alerted when intruder enters with a picture to your cell phone, PDA or email address
- Supports multiple cameras including: webcams, spycams, wireless and IP based network cameras

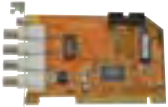


**Minimum system requirements:** Windows® 95/98/ME/NT/2000/XP

Part No.	Description	1	10
404531	Security system	\$150.99	\$139.00

## DigiVue™ Digital Surveillance System

- Input signal: 4 video, 1 audio channel
- Watermark time & date stamp
- Display and record: 60 frames/sec.
- Enhanced MPEG4 format
- Adjustments: light, contrast, hue, saturation
- Record mode: event/continuous/schedule
- Resolution: 160 x 120 to 640 x 480
- Storage: HDD/VDRM/CD-RW/DAT/MO/ZIP/RAID
- Supports real time WAN/LAN and internet monitoring via client software, internet explorer



**Includes:** CD-ROM and drivers

**Minimum system requirements:** Pentium® 4, 1.8GHz, 256MB RAM, 32MB AGP video card

Part No.	Product No.	1	10
639568	EDV-XV425	\$94.95	\$85.46

## Notebook Computer Security Cable

This security cable uses a unique lock slot that is built into most of today's leading notebook computers. Safeguard your laptop, desktop and other valuable equipment.



Part No.	Description	Length	1	10
355573	Security cable	6 ft.	\$26.85	\$22.82

## ELYSSA CORPORATION Self-Contained Security System

The ABS-1000+ security system is comprised of a control panel, motion sensing device, and 115dB siren all built-in inside an easy to mount steel cabinet. Mounted to a ceiling, infrared motion sensor can sense up to 12 feet high and 30' wide.

**SALE**



Two remote controls are provided for easy arming and disarming of the system.

- Heavy gauge steel cabinet • 115dB siren
- Passive infrared motion detection
- Size: 9.0"W x 9.0"D x 7.25"H • Weight: 11 lbs.

Part No.	Product No.	1	10
681213	ABS-1000+	\$109.95	\$139.95

## Black and White CCD Camera with 6" Monitor

**Camera:** EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 420 TV lines
- 6 IR LED light for view in the dark applications
- Min. illumination: 0 lux with LED; 0.1 lux without LED
- Signal & noise ratio: >48dB
- Built-in audio function



**Monitor:** EIA Format

- 6" monitor with auto switching audio/video input; auto switching time selectable (2 to 20 seconds auto cycling)
- 2-channel audio/video input, 1-channel audio/video synchronous output
- Auto switching time selection, volume adjustment button on front panel
- Time (seconds) scale display in front panel

**Includes:** Camera with bracket, cable 13.5VDC @ 1.2A power supply

Part No.	Description	1	10
639613	Camera with monitor	\$134.79	\$121.33

## 14" Color CCTV Monitor

- NTSC/PAL switchable
- Operating frequency: EIA - 15750Hz/60Hz; CCIR: 15625Hz/60Hz
- Input voltage: 100 - 240VAC @ 50/60Hz
- Input signal: CVBS - 1Vp-p (typical); Y/C separation - 1Vp-p
- Input impedance: hi/lo impedance (switchable)
- Video in/out channel (BNC): (2) BNC connectors (CVBS in/out); (2) 4-pin mini DIN (YC in/YC out)
- Audio in/out channel: 2 inputs/2 outputs
- Front panel control: power on/off; contrast, brightness, color, tint, sharpness, volume (AV/YC) switches
- CRT dot pitch: 0.63mm
- CRT: 14" diagonal
- Power consumption: 70W • Res.: >420 lines
- Size: 13.8"W x 14.4"D x 12.6"H • Weight: 31.9 lbs.



Part No.	Mfr. Part No.	1	10
320119	15-MC14A	\$294.05	\$264.63

## USB Color Camera with Built-In Illuminator

Just connect this camera into your computer's USB port, install the included software and you are ready to be seen on the web.

- 1/3" CMOS digital sensor
- 6mm lens • 350k pixels
- Still image: 640 x 480 • View angle: 62°
- Min. lux: 0 (w/ IR illuminator) • USB powered
- Slide bar hue, contrast and brightness control
- Auto or manual exposure, gain and white balance adjustments • 380 line resolution
- Frame rate: 15fps @ 640 x 480 res.; 3fps @ 160 x 120 to 352 x 288 res.

**Includes:** CD-ROM software and drivers

Part No.	Product No.	1	10
639576	EC-PC-CAM	\$47.45	\$42.71



## SONY® Color CCD Camera

**Sony Chipset**

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

**Requires:** 12VDC @ 120mA power supply (recommend P/N 163993, pg 238)

**Includes:** Power/signal cable & mounting hardware

Part No.	Description	1	10
213436	Enclosed color camera	\$179.95	\$161.95



## Night Vision Infrared Lighted Camera

**EIA Format**

- Adjustable camera lens
- Auto iris controlled
- Built-in voltage regulator
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Horizontal synch.frequency: 15.734kHz
- Video output: 1Vp-p; 75Ω • Lens: 3.6mm
- Audio output: 2Vp-p max. • 380 TV line resolution
- FOV: 92° • 0.1 lux with F2.0
- Matching conn.: RG59 BNC (P/N 71271, pg 167)
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.

**Includes:** 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404	Infrared lighted camera	\$99.99	\$94.99





## Mini Alarm Siren

- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L



Part No.	Description	1	10	50
148152	Alarm siren	\$8.95	\$7.99	\$6.35

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Power supply: 12VDC (recommend P/N 162996, pg 237)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • FOV: 92°
- Size: 1.3"L x 1.3"W x 1.2"H



Part No.	Description	1	10
171029	Camera board .....	\$44.95	\$40.45

## Black and White Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420TV lines
- Min. illumination: 0.1 lux
- Horizontal freq.: 15.734kHz
- 510(H) x 492(V) EIA signal format
- Clock freq.: 19.0699MHz
- Scanning system: 2:1 interlace
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight compensation and auto-gain control selectable
- Power requirements: 12VDC @ 100mA; 24VAC
- Vertical freq.: 60Hz • S/N ratio: 48dB
- Size: 4.5"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.



Part No.	Description	1	10
245041	Black & white CCD camera ....	\$99.95	\$89.95

## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Vertical freq.: 60Hz
- Scanning system: 2:1 interlace
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable
- Auto-tracing white balance
- 2X digital zoom • S/N ratio: 52dB
- Power requirements: 12VDC @ 150mA



Part No.	Description	1	10
395461	Color camera .....	\$103.35	\$93.89

## AN-100 Basic Distribution Panel

This economical panel provides distribution of voice and video signals throughout the home.

- Triple gang install ring and cover
- Coax distribution: 1 in, 4 out
- Telephone distribution: 4 lines to 6 locations (110 punch down)
- Video distribution: 1 line to 4 locations
- Supports: CAT3, CAT5 or CAT5e twisted pair, RG59 or RG6 coax cable
- Size: 6.5"W x 4.75"H



Part No.	Product No.	1	10
635882	AN-100 .....	\$36.39	\$34.57

## Color Interline Camera

### Water Resistant with Mounting Bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 53°
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply



**Includes:** Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017	Color camera .....	\$99.95	\$89.95

## 2.4GHz Wireless Weatherproof Color Camera with PIR

- NTSC format • 1/4" CCD image sensor
- For indoor and outdoor use
- 380 horizontal line resolution
- 3 lux with F2.0; 0.5 lux with F1.2
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max
- Transmitter output power: 10mW
- Output impedance: 50Ω typical
- Pulse counter w/ automatic reset



**Includes:** 12VDC @ 500mA power supply and mounting hardware

Part No.	Mfr. Part No.	1	10
319871	15-2400CTH .....	\$195.25	\$180.25

## Waterproof Tube-Style IR Color Camera

- NTSC format
- 1/4" CCD image sensor
- 420 horizontal line resolution
- 59.94Hz vertical frequency
- Scanning system: 2:1 interlace
- Up to 1/100,00 sec. electronic shutter
- Auto white balance and gain control
- 880 ~ 940nm infrared wavelength
- Internal synchronization • 0 lux w/ 20 IR LEDs
- Video output: 1Vp-p, 75Ω • S/N ratio: >48dB
- 4.3mm lens with F1.8 • 512(H) x 492(V)



**Requires:** 12VDC @ 160mA power supply (recommend P/N 162996, pg 237)

**Includes:** Mounting hardware

☛ Blue Part No. = Limited Quantity Available

Part No.	Mfr. Part No.	1	10
319901	15-CM25WM ☛ .....	\$189.05	\$184.29

## 2.4GHz Wireless Color Dome Camera

### NTSC Format

- 1/4" CCD image sensor
- 512(H) x 492(V)
- 380 horizontal line resolution
- 1 lux with F2.0
- Scanning system: 2:1 interlace
- Up to 1/120,000 second electronic shutter
- 60Hz vertical frequency • S/N ratio: 48dB
- 3.6mm lens with F2.0 • FOV: 92°
- Video output: 1Vp-p, 75Ω • Size: 3.4"Dia x 2.3"H
- Power supply: 12VDC @ 300mA



**Includes:** 12VDC @ 300mA power supply and mounting hardware

Part No.	Mfr. Part No.	1	10
319855	15-2400CTD .....	\$175.25	\$165.00

## Mini Dome Color Camera

### NTSC Format

- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- 15.73kHz horizontal synch. frequency
- Up to 1/96,000 second electronic shutter
- Power supply: 12VDC @ 160mA (recommend P/N 162996, pg 237)
- 3.6mm lens with F2.0 • S/N ratio: 46dB
- Video output: 1Vp-p, 75Ω • 2 lux/F2.0
- Size: 3.5"Dia. x 2.3"H • FOV: 92°



**SALE**

**Includes:** Mounting hardware

Part No.	Description	1	10
171037	Mini-dome camera .....	\$111.95	\$100.76

## Color Digital CCD IR Dome Camera

### NTSC format

- Image sensor: inch interline transfer CCD
- Auto-electronic shutter
- Auto white balance
- Scanning system: 525 lines, 60 fields/sec
- Electronic shutter: 1/60 to 1/80,000 sec.
- Video output: 1Vp-p video at 75Ω
- S/N ratio: better than 42dB • 522(H) x 492(V)
- 420 TV line resolution • 1 lux w/ F1.2
- Power source: 12VDC • Size: 3.4" Dia. x 3.7"H



**NEW**

Part No.	Description	Price
1581370	Dome camera .....	\$117.65

## Color Digital CCD Dome Camera with 0.01 LUX Illumination

### NTSC format

- Image sensor: 1/3" Sony CCD
- 420 line horizontal resolution
- Minimum illumination: 0.01 lux
- Auto-electronic shutter
- Power: 12VDC @ 110mA
- Auto gain control/white balance/back light compensation
- S/N ratio: more than 48dB • 510(H) x 492(V)
- Video output: 1Vp-p, 75Ω • 4mm lens



**NEW**

Part No.	Description	1	10
1581396	Dome camera w/ illumination .....	\$220.55	\$206.05

## Mini Wireless Color Camera

This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150' (unobstructed) range and 9-volt battery power, you can now add video capability to a world of hobby applications.



Part No.	Description	1	10
249025	Wireless color camera .....	\$89.95	\$80.95

www.Jameco.com

For additional Security Products  
visit our website today!

## 4-Channel 2.4GHz Wireless Audio/Video Transmitter System

CCIR, NTSC, PAL, EIA Format

- ISM band: 2.413 – 2.470GHz
- Four selectable transmitter and receiver channels
- Antenna mode: dipole (omnidirectional)
- Impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max. • Weight: 3.2 lbs.

**Includes:** (2) 9VDC @ 300mA with 1.3mm x 3.5mm center pos. plug and (2) 2.5mm male to RCA patch cables

Part No.	Description	1	10
265308	4-ch. wireless system .....	\$149.95	\$134.95

## 2.4GHz Wireless Audio/Video Transmitter

- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 watt
- Video input: 1Vp-p
- Audio input: 2Vp-p
- Includes:** 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

Part No.	Description	1	10
179864	Wireless audio/video tran. ....	\$199.95	\$149.96
179864	2.4GHz SMA RF antenna .....	13.65	10.24
179872	Wireless extension cable .....	10.99	9.89

## 4-Channel 2.4GHz Wireless Audio/Video Receiver & 10mW Transmitter



- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.

- Receiver:**
- Non-volatile memory protects system set-up from power loss
  - Video loss detection & freeze channel
  - Mute and alarm trigger port • Weight: 1.8 lbs.

**Includes:** RCA cable, 12VDC @ 500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858	4-channel transmitter .....	\$94.45	\$85.05
192866	4-channel receiver .....	124.95	112.95

## Cable Assemblies

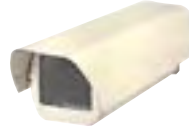
75Ω RG59/U BNC – BNC		1581353			
Part No.	Length	1	10	50	100
262730	25 ft.  .....	\$9.95	\$8.96	\$7.17	\$5.38
262748	50 ft.  .....	17.05	16.25	15.45	14.69

75Ω BNC – BNC and Jack-to-Jack <span style="background-color: #ffcccc; padding: 2px;">NEW</span>				
Part No.	Length	1	10	
1581353	25 ft. ....	\$8.75	\$7.88	
1581388	50 ft. ....	24.49	22.04	
1581409	100 ft. ....	28.59	25.71	

For additional BNC Cables see pages 133 & 167.

## Outdoor Metal Camera Enclosures

- Plate glass: 3mm thick
- Heater keeps optics from fogging
- Clear window area: 3.5"W x 3.1"H
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H
- Weight: 6.8 lbs.



**SALE**

Part No.	Description	1	10
170940	Camera housing w/ heater Ⓢ	\$50.55	\$45.45

## Audio/Video Adaptor

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Support both NTSC & PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Video trans. distance: 1000' color/ 2000' black/white
- 210471:** Signal pair: video (BNC), CAT pair 1 (RJ45)
- 220881:** Signal pairs: video (BNC), CAT pairs 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)
- Includes:** Mounting hardware



Part No.	Description	1	10
210471	BNC/RJ45 w/ cable .....	\$28.45	\$25.60
220881	BNC/RJ45 Ⓢ	42.95	32.21

## 4-Channel Digital Video Multiplex Recorder

- TCP/IP with client software web interface
- Plug and play
- RS-232C, RS-485, 4-alarm input, 1 relay output



- Video I/F**
- 4-channel input, 1Vp-p, 75Ω unbalanced BNC type connectors • 480 TV lines
  - 16.7 million colors • S/N ratio: >48dB
  - 4 output (BNC/SVHS/VGA type)

### Monitoring Method

- Split screen (full/quad display), zoom, PIP, sequence
- Screen quality: full screen – 720(H) x 480(V) active pixels; ¼ screen – 360(H) x 240(V) active pixels

### Recording/Playback Function

- 30 frames/sec. maximum • JPEG compressed picture
- Quad screen recording or field switcher method
- Real time/time lapse/event record mode

**Includes:** Remote control, 12VDC @ 4.16A power supply, manual and software in CD-ROM

Part No.	Mfr. Part No.	1	10
320127	15-DVR04SAE-LAN .....	\$565.25	\$537.55

## Dual Page Color Quad Processor

- Signal format: NTSC/PAL color
- Display rate: 60fps/50fps
- 4-channel with loop
- Video outputs selectable: 1Vp-p 75Ω
- Alarm input: 8 • 7-character titles
- Video inputs: 1Vp-p, 75Ω • BNC video connectors
- Memory 1024 x 512 • Date time generator
- Switching interval: 1 to 99 seconds



Part No.	Product No.	1	10
638240	15-QC43 Ⓢ	\$196.05	\$175.05

## ATEN SVGA Monitor Splitters

Duplicate video signal to monitors up to 210' away.

- Suitable for SVGA, VGA & multisync monitors

### 176866: 2-channel

- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors

Size: 6.6"L 3.3"W x 1.1"H • Weight: 1.4 lbs.

### 133866: 4-channel

- Slide switch for video signal gain control
- Daisy chainable • One-year warranty
- Size: 8.8"L x 6.0"W x 1.9"H • Weight: 3.6 lbs.

**Includes:** Power adapter and manual

Part No.	Description	1	10
176866	2-ch. monitor splitter Ⓢ	\$49.95	\$37.46
133866	4-ch. monitor splitter .....	59.95	51.66



## Video RF Modulator w/ S-VHS Input

- RF outputs: 3 or 4 channel switch selectable
- RF output impedance: 75Ω
- Video input impedance: 75 or 1kΩ
- Audio input impedance: 13 ±3kΩ
- TV to antenna insertion loss 50 – 806MHz: -2dB
- Video carrier output level: 69dBuV



Part No.	Mfr. Part No.	Description	Price
319062	203-101 Ⓢ	Video RF modulator .....	\$14.95

## Mini Indoor Pan & Tilt Mechanism

### Continuous Pan

- Automatic scanning: 360°; pan clockwise and counter-clockwise
- Manual tilt: 0° - 90°
- Pan speed: 5°/sec.
- Max. load: 4.4 lbs.
- Power consumption: 1 watt
- Warranty: 2 years continuous use

**Includes:** 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407	Mini pan/tilt Ⓢ	\$49.95	\$44.90



Camera not included

## PANAVISE Camera Mount

### Mount Your Video Camera Almost Anywhere

Mount your video or CCTV camera on any window, non-porous surface, or onto the tripod-style screw. For cameras up to 3 lbs.

Part No.	Description	1	5
222746	CCTV camera window mount Ⓢ	\$32.49	\$29.25



## Camera Mounting Bracket

- Aluminum construction (white coated)
- Maximum load: 6.5 lbs.
- Overall height: 5.1" • Base dia.: 1.8"
- Swivel angle: 360° • Tilt angle: 120°

Part No.	Description	1	10
311191	15-B009 Ⓢ	\$6.65	\$6.19





## Enclosed Camera Mounting Bracket

- Material: white plastic
- Swivel angle: 360° • Tilt angle: 90°
- For use w/ camera (P/N 150404, pg 263)

Part No.	Max Load (lbs.)	Ht. (in.)	1	10
170982	6.6 lbs. Ⓢ	2.0	\$5.49	\$4.12



 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications

See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications



Extech MN35

- 2000 count
- 5 functions
- Temperature function



P/N 645618  
\$18.99

Sizes shown are for relative comparisons.



Mastech M300

- 2000 count
- 6 functions
- Extremely low cost



P/N 220812  
\$9.65

Quantity SAVE

Pocket Sized



Velleman DVM850BL

- 2000 count
- 6 functions



P/N 355207  
\$16.75



Jameco JE110

- 2000 count
- 6 functions
- 100µV resolution



P/N 119212  
\$16.49

Quantity SAVE

Pocket Sized



BP-1562

- 2000 count
- 6 functions



P/N 318781  
\$9.95

EXCLUSIVE



Mastech MAS830L

- 2000 count
- 7 functions
- Continuity test



P/N 220759  
\$15.49



Mastech MAS838

- 2000 count
- 8 functions
- Temperature



P/N 220741  
\$19.95



Extech MV110

- 2000 count
- 8 functions
- Tilttable display



P/N 197958  
\$36.95

Sizes shown are for relative comparisons.



Mastech MY64

- 2000 count
- 11 functions
- Temp. & frequency



P/N 220775  
\$42.69



Fluke 73-III

- 3200 count
- 9 functions
- Autorange/frequency
- Analog bargraph



P/N 182035  
\$189.89

				Basic Measurement Functions												Test Functions				Special Functions								
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
645618	Extech MN35	2000	5	100µV	200m - 600	200 - 600	200m - 10	—	200 - 20M	—	—	↔	—	-20 to 750	-40 to 1400	✓		✓						5.4 x 2.8 x 1.5	645618	\$18.99	\$18.05	
220812	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—		—	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812	9.65	7.24
355207	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	355207	16.75	15.92
119212	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—	↔	—	—	—	✓			✓					4.8 x 2.6 x 1.0	119212	16.49	12.37	
318781	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓					5.4 x 2.7 x 1.2	318781	9.95	9.45
220759	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759	15.49	14.99
220741	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—	↔	—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741	19.95	15.96	
197958	Extech MV110	2000	8	100µV	200m - 1000	200m - 750	20µ - 10	20µ - 10	200 - 200M	—	—		—	—	—	—	✓		✓	✓					7.3 x 3.5 x 1.3	197958	36.95	35.19
220775	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—		2k - 20k	-20 to 1000	—	✓		✓	✓	✓					7.4 x 3.6 x 1.3	220775	42.69	39.09
182035	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—	↔	—	—	—	✓		✓		✓	✓			6.6 x 3.0 x 1.1	182035	189.89	184.99	
220767	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—		32.6k - 150k	—	—	✓		✓	✓	✓	✓	✓			7.4 x 3.6 x 1.3	220767	47.95	45.49
645626	Extech EX330	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 10	.1µ - 10	.1 - 40M	.001n - 200µ	—		.001 - 10M	-50 to 1000	-58 to 1832	✓		✓		✓				5.7 x 2.9 x 1.6	645626	47.45	45.15	
1581177	Extech EX430	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 20	.1µ - 20	.1 - 40M	.1n - 100µ	—	↔	.001 - 10	-20 to 750	-4 to 1382	✓		✓		✓		✓		7.4 x 3.2 x 2.0	1581177	79.95	77.95	
216514	Metex ME-31	4000	10	100µV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	—	—		—	—	—	—	✓		✓		✓	✓			7.3 x 3.3 x 1.5	216514	56.95	54.15
692502	Extech DM110	4000	10	100µV	0 - 500	0 - 500	0 - .40	0 - .40	400 - 40M	0 - 200µ	—		9 - 10M	—	—	—	✓		✓						4.3 x 2.2 x 0.5	692502	27.99	26.59
211650	Extech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—	↔	10 - 10M	0 to 760	0 to 1400	✓		✓		✓				4.8 x 2.4 x 1.6	211650	39.95	37.95	
117373	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	—	✓		✓		✓		✓		7.7 x 3.6 x 1.6	117373	89.95	71.90
137462	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	—	✓		✓		✓	✓	✓		7.7 x 3.6 x 1.6	137462	135.99	122.39
215589	Metex M3890D	4000	15	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200µ	—		4k - 4M	-40 to 1200	-40 to 2192	✓	✓	✓	✓	✓	✓	✓		7.8 x 3.5 x 1.7	215589	99.95	94.99	

\* with non-contact voltage detector (100-600VAC range)

Blue Part No. = Limited Quantity Available

DMMs continued on pages 268-269.

DMMs continued on pages 268 - 269.



Mastech MY68

- 3260 count
- 12 functions
- Autorange
- Analog bargraph



P/N 220767  
\$47.95



Extech EX330\*

- 4000 count
- 9 functions
- Non-contact AC voltage detector



P/N 645626  
\$47.45

Best Seller



Extech EX430

- 4000 count
- True RMS
- Auto ranging



P/N 1581177  
\$79.95

True RMS



Metex ME-31

- 4000 count
- 10 functions/RS232
- Autorange
- Analog bargraph



P/N 216514  
\$56.95



Extech DM110

- 4000 count
- 10 functions
- Autorange



P/N 692502  
\$27.99

Pocket Sized



Extech MN26

- 4000 count
- 11 functions
- Autorange
- Temp./frequency



P/N 211650  
\$39.95

Pocket Sized



BP-1949

- 4000 count
- 12 functions/RS-232
- Autorange
- Temp./frequency



P/N 117373  
\$89.95

EXCLUSIVE



BP-1737

- 4000 count
- 12 functions/RS-232
- Autorange
- Temp./frequency



P/N 137462  
\$135.99

EXCLUSIVE



Metex M3890D

- 4000 count
- 15 functions/USB
- Autorange
- Temp./frequency




P/N 215589  
\$99.95

Triple Display

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See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications

RoHS  RoHS Compliant Product  
RoHS Also Available  
Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave

See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications

EXTECH

Extech MP510  
• 5000 count  
• Backlit LCD/  
auto power off



P/N 1581185  
\$139.95

FLUKE

Fluke 115  
• 6000 count  
• Backlit  
• True RMS



P/N 1537328  
\$149.95

Fluke 117  
• 6000 count  
• Backlit  
• True RMS  
• Non-contact  
voltage

P/N 1537336  
\$179.95

FLUKE

Fluke 175  
• 6000 count  
• 12 functions  
• Autorange  
• Frequency



P/N 192655  
\$219.89

FLUKE

Fluke 179  
• 6000 count  
• 13 functions  
• Autorange  
• Temperature  
• Frequency



P/N 185535  
\$239.89

WAVETEK  
Meterman

Wavetek/MM 37XR  
• 10,000 count  
• 14 functions  
• Inductance  
• Autorange  
• dB display



P/N 222527  
\$129.49

WAVETEK  
Meterman

Wavetek/MM 38XR  
• 10,000 count  
• 14 functions/RS232  
• Autorange  
• Temperature  
• Frequency



P/N 222543  
\$149.49

JAMECO BenchPro

BP-1415  
• 20,000 count  
• 8 functions  
• Capacitance



P/N 318764  
\$73.49

FLUKE

Fluke 189  
• 50,000 count  
• 13 functions  
• Data logging  
• Temperature  
• Frequency



P/N 182043  
\$429.89

Protek

Protek 6800  
• 80,000 count  
• RPM, DBM  
function  
• Square wave  
generator



P/N 1581214  
\$193.95

DMMs continued from pages 266-267.

DMMs continued from pages 266-267.				Basic Measurement Functions													Test Functions				Special Functions				DMMs continued from pages 266-267.			
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
1581185	Extech MP510↑	5000	7	10µV	50m - 1000	50m - 1000	500µ - 10	500µ - 10	50 - 50M	50n - 9999µ	—	↔	0.01 - 125k	—	—	✓		✓			✓	✓	✓	7.4 x 3.4 x 1.4	1581185	\$139.95	\$135.99	
1537328	Fluke 115↑	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—		99.99 - 50k	—	—	✓		✓		✓	✓	✓	✓	10.9 x 6.3 x 2.2	1537328	149.95	147.95	
1537336	Fluke 117*↑	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—		99.99 - 50k	—	—	✓		✓		✓	✓	✓	✓	10.9 x 6.3 x 2.2	1537336	179.95	177.95	
192655	Fluke 175	6000	12	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—	↔	99.99 - 99.99k	—	—	✓		✓		✓	✓	✓	✓	7.3 x 3.5 x 1.7	192655	219.89	214.39	
185535	Fluke 179↑	6000	13	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓	✓	✓	7.3 x 3.5 x 1.7	185535	239.89	227.89	
222527	Wavetek/MM 37XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	4m - 40		100 - 10M	—	—	✓	✓	✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222527	129.49	122.99	
222543	Wavetek/MM 38XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	—	↔	100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222543	149.49	141.99	
318764	BenchPro BP-1415	20,000	8	10µV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20µ	—		20k	—	—	✓		✓	✓	✓	✓	✓	✓	7.4 x 3.6 x 1.2	318764	73.49	66.15	
182043	Fluke 189	50,000	13	1µV	50m - 1000	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50µ	—		500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓	✓	✓	✓	✓	✓	8.0 x 3.9 x 2.0	182043	429.89	416.99	
1581214	Protek 6800	80,000		1µV	8 - 1000	80m - 750	80m - 10	80m - 10	80 - 80M	1n - 100µ	—		1K - 8M	-50 to 1372	-58 to 2502	✓		✓		✓	✓	✓	✓	7.5 x 3.5 x 1.5	1581214	193.95	189.95	

\* with non-contact voltage † with backlight

EXTECH

## Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Inductance ranges: 2000µH to 10,000H
- Capacitance ranges: 2000pF to 10mF
- Resistance ranges: 20Ω to 10MΩ



- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Size: 3.6"W x 2.1"D x 7.6"H
- Weight: 0.8 lbs.

Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678	LCR Meter	\$178.95	\$160.95
189238	9VDC @ 300mA adapter	5.35	4.52

MASTECH

## 15A AC Line Separator for AC Current Clamp Meters

- Max. overload: 250VAC @ 15A
- X1 and X10 clamp areas
- Socket compatible with US & European connectors
- Convenient 0.1" dia. tip test points for neutral/earth/line



Part No.	Description	1	10	25
162325	3-prong US-type plug ...	\$9.99	\$8.99	\$8.09

## High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39" • Probe length: 14" • Wt: 0.8 lbs.



Part No.	Description	1	10
132290	High volt. test probe	\$79.95	\$65.48

## 3-in-1 Lab Center



## Mini DC/AC 2000-Count Clamp Meter/Multimeter

- Bright 1/2" LCD
- Compatible with P/N 162325, left
- Data hold
- 0.5" digit height
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.



ACA*	20A, 200A	±1.2% +5d
DCA	200A	±1.2% +5d
ACV*	500V	±1.0% +2d
DCV	200V	±0.8% +1d
Resistance	200Ω	±1.2% +1d
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	

Requires: 9V battery not included (P/N 151095, pg 246)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756	Mini DC/AC clamp meter	\$119.95	\$107.95

## 50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Description	1	10	25
162309	Current shunt	\$28.19	\$25.41	\$22.54

Digital Multimeter, Regulated Power Supply, and Soldering Station. See page 289.

EXTECH

## Mini Analog Multimeter

- Easy to read analog display
- 5% full scale accuracy
- Battery test on 9V and 1.5V batteries
- 6 functions including battery and decibel test
- DC current ranges: 0.5mA to 250mA
- DC voltage ranges: 2.5V to 300V
- AC voltage ranges: 10V to 300V
- Resistance ranges: 10KΩ to 1MΩ
- Size: 6.1"H x 3.5"W x 1.9"D
- Weight: 0.5 lbs.



Includes: Test leads protective holster and 1.5V AA battery

Part No.	Product No.	1	5
1536843	38073	\$14.59	\$14.24

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EXTECH

## 400A AC/DC Clamp Meter/Multimeter

- Auto ranging with auto power-off
- 0.9" (23mm) jaw size
- Continuity beeper and diode test
- Overload protection
- Over range and low battery indicators
- One touch "Auto Zero"
- 4000 count LCD display
- Data hold freezes current reading on display
- Basic current accuracy: AC: ±3.0%; DC: ±2.5%
- Measures AC/DC current, DCV, ACV, resistance, capacitance, frequency, temperature, and duty cycle
- Basic voltage accuracy: AC: ±2.0%; DC: ±1.5%
- AC/DC current ranges: 40A–400A; 0.01A max. res.
- Capacitance ranges: 40nF–1000µF; 0.01nF max. res.
- DC/AC volt. ranges: 400mV–600V; 0.1mV max. res.
- Resistance: 400Ω–40MΩ; 0.1Ω resolution
- Duty cycle: 0.5%–0.99%; 0.1% max. res.
- Frequency ranges: 5Hz–150kHz; 0.001Hz max. res.
- Temperature ranges: -58° to +1830°F (-50° to +1000°C); 1° max. resolution



Includes: Test leads, case, and 2 AAA batteries

Part No.	Product No.	1	5
374070	MA220	\$89.09	\$80.18

EXTECH

## 1000A Clamp Meter with IR Thermometer

- Non-contact IR temperature measurements with laser pointer
- Peak hold captures inrush current and voltage measurement
- 1.7" (43mm) jaw opening for conductors up to 750MCM
- 4000 count backlit dual display
- Data hold and min./max.
- Auto ranging with manual range button
- Auto power off
- IR temperature ranges: -58°F – 518°F (-50°C – 270°C)
- AC/DC current ranges: 0.1A – 1000A
- AC/DC voltage ranges: 0.1mV – 600V
- Resistance ranges: 0.1Ω – 40MΩ
- Capacitance ranges: 0.001nF – 40,000µF
- Frequency ranges: 0.001kHz – 4kHz
- Type K temp. ranges: -4°F – 1400°F (-20°C – 760°C)
- Continuity and diode test • True RMS
- Size: 10.6"L x 4.3"W x 2.0" thick



Includes: Test leads, 9V battery, type K probe, and belt holster

Part No.	Product No.	1	5
1585881	EX830	\$179.95	\$175.95

JAMECO

## Automotive Digital Multimeter

- RPM (2/4/5/6/8 cylinder) range: 0 – 10,000RPMs
- Dwell angle: 0-180°
- Temperature ranges: -20°C to +760°C (-4°F to 1400°F)
- Large 4-digit backlight LCD display (1" character height)
- Resolution: 100µV max.
- DC voltage ranges: 400mV to 100V
- AC voltage ranges: 400mV to 750V
- DC / AC current ranges: 400µA to 10A
- Resistance ranges: 400Ω to 40MΩ
- Capacitance ranges: 40nF to 100µF
- Frequency ranges: 9.999Hz to 9.999MHz
- Auto/Manual selection range
- Diode and continuity tests
- Auto power off
- Data hold + relative function
- Overload protection
- Size: 6.2"H x 3.0"W x 1.8"D
- Weight: 1.3 lbs.

Includes: Manual, 9V battery and test/temp. probes

Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	25
645562	DVM205AM	\$61.69	\$59.55	\$56.59



Velleman

## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test
- Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz
- Weight: 3.3 lbs.
- Size: 9.0"W x 9.4"D x 3.3"H
- Two-year warranty

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (Windows® 98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586	B940	\$165.35	\$157.04



Protek

## 2000-Count Multimeters

- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.
- 160830: 3 1/2-Digit
- DC/AC current ranges: 20µA – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS
- 203801: 3 1/2-Digit
- DC/AC current ranges: 20µA – 2A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS
- 421542: 3 1/2-Digit
- DC/AC current ranges: 200µA – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

Refurbished = Backed by Jameco

Part No.	Product No.	Price
160830	8010A	\$199.95
203801	8012A	199.95
421542	8050A	219.95

Detailed specifications for Oscilloscopes at [www.Jameco.com/OScopes](http://www.Jameco.com/OScopes)

## Benchtop Power Supplies



See page 275.

## 20,000-Count True-RMS Benchtop Multimeter

- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200Ω – 20MΩ
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor h<sub>FE</sub> measurement
- Size: 9.9"L x 9.8"W x 3.6"H
- One-year manufacturer's warranty
- Weight: 6.1 lbs.

Part No.	Product No.	1	10	25
132564	DM441	\$269.95	\$256.49	\$243.49



EZ DIGITAL

## 20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings/second
- DC accuracy: 0.1% ±5 digits
- 10 reading storage and compare
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Frequency ranges: 20kHz – 20MHz
- Min., max., average, relative functions
- Logic, diode, transistor h<sub>FE</sub> and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H
- Weight: 7.5 lbs.

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852	MXD4660A	\$279.79	\$266.48



METEX

## Handheld 2MHz Digital Oscilloscope with 3½-Digit Multimeter

- 10MHz for repetitive signals; 2MHz for single shot events
- Input impedance: 1MΩ/20pF
- Max. input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels
- Vertical resolution: 8-bit
- Timebase range: 0.2µs to 1 hr./div
- Input sensitivity: 5mV to 20V/div
- Linearity: ±1 bit
- Screen hold
- Trigger mode: run, normal, once, and ± slope
- True RMS and dB measurements
- High contrast 3.3" diagonal LCD display
- Recommend 9VDC @ 300mA power supply (133891, pg 238)
- Weight: 1.0 lb.
- Batteries not included

Includes: DVM850 multimeter (below) and insulated BNC-to-alligator clip measurement probes

### 6-Function Multimeter:

- 3½ digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

Part No.	Description	1	5
355485	2MHz Oscilloscope w/ DMM (HPS10 + DVM850)	\$194.95	\$185.25



Velleman



355207 (DVM850) can be purchased separately, pg 266

Free DMM!

## Handheld 5MHz Digital Oscilloscope with true-RMS Multimeter

- 5MHz bandwidth
- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC RMS max.
- Trigger modes: auto, normal, single
- Trigger source: channel A, channel B, external
- Trigger coupling: AC, DC
- Timebase: 1µS to 5S
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual channel; 50MS/s single channel
- 132 x 128 pixel super-twist two level backlit display
- Data hold and low battery indications
- RS-232 PC interface and software for transferring waveforms and data
- Resolution: 100µV max.
- DC voltage ranges: 0.001V to 1000V
- AC (TRMS) voltage ranges: 0.001V to 750V
- Resistance ranges: 1Ω to 5MΩ
- Frequency ranges: 0.01Hz to 10MHz
- RPM ranges: 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H

Includes: Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster, and carrying case

Part No.	Product No.	1	5
645651	381295	\$427.49	\$406.15



EXTECH

## 2MHz Panel Mount Oscilloscope

This compact scope at only 1.4" deep is perfect for continuous monitoring and system analysis.

- High contrast LCD display with backlight, 128 x 64 pixels
- Maximum sample rate: 10MHz for repetitive signals (2MHz for single shot events)
- Maximum input amplifier bandwidth: 2MHz
- Input impedance: 1M $\Omega$ /20pF
- Maximum input voltage: 100Vpeak (AC+DC); 200Vp-p (AC only)
- Input coupling: DC, AC, and GROUND
- Vertical resolution: 8-bit
- Trigger modes: Run, normal, roll mode for 1s/div and slower time base
- Signal storage: 256 samples max., 125 samples visible
- dBm measurement: -73dB to 40dB\*
- dBV measurement: -75dB to 38dB\*
- True RMS measurement: 0.1mV to 80V\*
- Peak to peak AC range: 0.1mV to 160V\*
- Timebase ranges in 32 steps: 0.2 $\mu$ s to 1 hour/division
- Input sensitivity ranges in 12 steps: 5mV to 20V/division @ x1; 50mV to 200V/division @ x10
- Input voltage: 6VAC or 9VDC@300mA
- Size: 6.5"W x 3.5"H x 1.4"D • Weight: 1.0 lb.



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Totally Unique

Part No.	Product No.	1	5
645280	VPS10	\$189.99	\$184.99

\*Increased performance with x10 probe

## Handheld 12MHz Digital Oscilloscope w/ 3 1/2-Digit DMM

- 40MS/s for repetitive signals (10MS/s for single shot events)
- Input impedance: 1M $\Omega$ /20pF
- Maximum input voltage: 100Vpeak (AC+DC), 200V peak-peak (AC only)
- Input coupling: DC, AC and GND
- LCD graphics display 112 x 92 pixels
- Vertical resolution: 8-bit  $\pm$ 1-bit linearity
- Timebase range: 32 steps; 50ns to 1hr./div
- Input sensitivity range: 12 steps; 5mV to 20V/div
- True RMS and dB measurements
- Trigger mode: run, normal, once, and roll modes
- High contrast LCD display
- Recommend 9VDC @ 300mA wall adapter (P/N 133891, pg 238)
- Batteries not included (recommend 1.5V, AA, Zinc Chloride battery)
- Size: 8.0"H x 4.1"W x 1.4"D
- Weight: 1.0 lb.
- Includes: DVM850 DMM & probes
- Multimeter:
  - 6-functions • Data hold function
  - 3 1/2-digit w/ backlight, 2000 count
  - DC voltage ranges: 200mV to 100V
  - AC voltage ranges: 200/600V
  - DC current ranges: 200 $\mu$ A to 10A
  - Resistance ranges: 200 $\Omega$  to 2M $\Omega$
  - Diode, transistor, and continuity test
  - Power supply: 9V battery (included)
  - Size: 2.7"W x 1.2"D x 5.4"H



355207 (DVM850) can be purchased separately, pg 266

Free DMM!

Part No.	Description	1	5
373157	12MHz Oscilloscope with DMM (HPS40 + DVM850)	\$388.89	\$369.51

## Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- Oscilloscope: 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5 $\mu$ s/div; 20 MS/s sampling rate
- Logic analyzer: 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- Digital multimeter: 3 1/2-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40 $\mu$ A-400mA; DC current 400 $\mu$ A-400mA; resistance 400 $\Omega$ -40M $\Omega$ ; continuity & diode testing
- Frequency counter: 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling;  $\pm$ 10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22892 or 216047, pg 272
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. • One-year warranty
- Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case



162430

Part No.	Description	1	5
162430	20MHz digital scope	\$823.95	\$787.90
163141	Rechargeable battery	53.75	48.54
162966	RS-232 cable & software	26.95	24.25

## 2-Channel USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. Its highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz are giving this unit all the power you need.



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### Oscilloscope:

- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Input range: 5mV to 2V/division
- Real time sampling frequency: 1.25kHz to 50MHz
- Sampling frequency for repetitive signals: 1GHz

### Spectrum analyzer:

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

### Transient recorder:

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Max. number of samples: 100/s
- Min. number of samples: 1 sample/20s

System requirements: IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

Includes: PC oscilloscope, 2 x 60MHz scope probes, USB cable, CD software, and manual

Part No.	Description	1	5
695017	PCSU1000	\$443.79	\$399.41

## Wire Tracer/Tone Generator Kit

- Typical applications: identifies wire pairs, trace LAN and telephone cables, check continuity, test telephone polarity, F type connector for testing 75 $\Omega$  coaxial video cables
- Transmitter with output cables terminated in modular RJ11 and RJ45 phone connectors
- Injects traceable signal into cables, checks telephone lines, and performs continuity checks
- Non-contact probe audibly identifies selected wire or cable
- Traces wires from source to termination
- Adjustable sensitivity control improves wire identification and eliminates false detection
- Size: Probe - 5.8"L x 1.1"W x 1.1"D; Generator - 4.1"L x 2.6"W x 0.9"D



EXTECH

Includes: Tone probe and tone generator with RJ11 and RJ45 connectors, adaptor with F type coaxial connector, alligator clips, 4 LR44 batteries, 9V battery and carrying case

Part No.	Product No.	Price
692511	TG30	\$48.99

## For Replacement Batteries



See page 246.

## Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- Temperature measurement
- Oscilloscope:
  - DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
  - Vertical axis: 3 steps ( $\pm$ 0.5/5/50 volts) with 4 divisions
  - Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
  - Trigger: auto and internal mode, slope and 5 trigger level selectable
  - Text display for peak to peak, min./max. voltage and frequency



221962

METEX®

### Digital Multimeter:

- 3 1/2-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- DC voltage ranges: 400mV - 1000V
- AC voltage ranges: 4V - 750V
- DC/AC current ranges: 400 $\mu$ A - 400mA
- Resistance ranges: 400 $\Omega$  - 40M $\Omega$
- Frequency ranges: 4kHz - 4MHz
- Temperature ranges: -40°C - +1200°C
- Capacitance ranges: 4nF - 400 $\mu$ F
- Diode and continuity
- Size: 3.4"W x 1.5"D x 8.0"H • Weight: 3.9 lbs.

Includes: Manual, power adapter and test leads

☉ Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
221962	MS-1280	\$329.95	\$313.49
221938	RS-232 cable & software	21.35	16.01

Color Code Legend

New Sale Lower\$ QtySave

## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1M $\Omega$ /30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576, pg 238)



### Oscilloscope:

- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

### Spectrum Analyzer:

- Frequency range: 0 to 25MHz

### Transient Recorder:

- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

**System requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

**Includes:** 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184	PCS500AU	\$478.95	\$429.95

## inSTEK 150MHz 2-Channel Digital Oscilloscopes

Color and Monochrome with RS-232/USB/Parallel Interfaces

- Bandwidth (–3dB): 150MHz
- 15 memory settings
- Real-time sample rate: 100MS/s maximum on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- Record length 125k/CH
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 5V/div
- Time base range: 1ns/div – 10s/div
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Input voltage: 100–240VAC @ 50–60Hz
- Frequency counter: 6 digits  $\pm$ 50ppm; AC coupled, 10Hz – 150MHz
- Size: 12.2"W x 10.0"D x 5.6"H • Weight: 9.3 lbs.
- Two-year warranty



**229358:** Monoch. w/ RS-232/USB/parallel interface  
**229366:** Color with RS-232/USB/parallel interface

**Includes:** BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229358	GDS-820S	\$1,259.95	\$1,196.95
229366	GDS-820C	\$1,439.95	\$1,367.95

## 20MHz 2-Channel Analog Oscilloscope

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 gain selected
- Horizontal deflection: 0.1 $\mu$ s/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input voltage: 115/230VAC w/ line voltage selector
- ADD function measures sum of two signals
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.



**Includes:** Two (X1/X10) test probes, power cord & manual

Part No.	Product No.	1	5
685311	SK0200	\$399.95	\$379.95

## 40MHz Multifunction Oscilloscope with Built-In 5MHz Function Generator

### Oscilloscope:

- 6" rect. high res CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/220/240VAC @ 50–60Hz
- Size: 15.7"L x 12.8"W x 5.2"H
- Weight: 26 lbs.
- Two-year manufacturer's warranty



2 Instruments in 1

### Function generator:

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50 $\Omega$
- Output volt.: 20Vp-p (no load), 10Vp-p (w/50 $\Omega$  load)

Part No.	Product No.	1	10
1536886	SK0404	\$529.95	\$499.95

## Modular Oscilloscope Probes



- Hook and pointed probes
- **216047/236777:** with IC test ground cover and spring ground contact
- Length: 5' • Maximum input voltage: 600V
- Alligator clip ground wire • BNC male connector

Part No.	Bandwidth ( $\pm$ 3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22892	6MHz	60MHz	1M $\Omega$ /180pF	10M $\Omega$ /22pF
216047	6MHz	100MHz	1M $\Omega$ /47pF	10M $\Omega$ /16pF
236777	6MHz	250MHz	1M $\Omega$ /47pF	10M $\Omega$ /14pF

\* with 20pF oscilloscope input

Part No.	Cross Ref. No.	1	10	50
22892	LF101E	\$29.94	\$26.96	\$24.26
216047	HF-9100	34.95	29.95	26.95
236777	HP-9250	45.95	43.39	37.25

## 100MHz 2-Channel Analog Oscilloscope

- 2-channel dual trace
- Auto focusing according to intensity • Delay line
- Weight: 22.8 lbs.
- Two-year warranty
- Size: 16.9"L x 12.6"W x 5.5"H



**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
121179	OS5100	\$999.95	\$964.95

## 100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter 2 Channel, 4 Trace

- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div
- Horizontal time base A/B deflection: 5ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less • Weight: 17.6 lbs.



**Includes:** Two X1/X10 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
190932	OS5100RB	\$1,199.95	\$1,139.95

## 20MHz Dual Trace Oscilloscope with Alt-Mag

- 3.15" x 3.94" CRT with internal graticule and scale
- Vertical amplifier: 5m/DIV to 5V/DIV in 10 steps (1-2-5 sequence)
- Horizontal sweep: 200ns/Div to 0.5s/Div in 20 steps (1-2-5 sequence)
- External trigger input: impedance – 1M $\Omega$   $\pm$ 5% + 20pF capacitance; maximum input voltage – 160V (DC or AC peak) • Size: 12.5"W x 15.75"D x 5.1"H
- Z axis modulation: 5Vp-p sensitivity; maximum input voltage – 50V or ACp-p • Weight: 16 lbs.
- Input voltage: 120VAC or 220VAC @ 50/60Hz



Part No.	Prod. No.	1	5	10
1536801	PROTEK 6020	\$425.99	\$419.99	\$399.99

## 30MHz Dual Trace Oscilloscope w/ LCR Component Tester

- 3.15" x 3.94" CRT with graticule and scale
- Vertical amplifier: 5mV/DIV to 20V/DIV in 12 steps (1-2-5 sequence)
- Horizontal sweep: 100ns/DIV to 0.2s/DIV in 20 steps (1-2-5 sequence)
- Triggering: external trigger input – 1M $\Omega$   $\pm$ 5% impedance; maximum input voltage – 4-p)
- Input voltage: 120VAC or 220VAC @ 50/60Hz
- Size: 12.2"W x 16.45"D x 5.1"H • Weight: 14.3 lbs.



Part No.	Product No.	1	5	10
1536819	PROTEK 6030	\$463.05	\$453.99	\$446.99

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## PROBE MATTER Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'

174473: 7-piece kit  
 212257: 25-piece kit

Part No.	Product No.	1	10
174473	4901-02 (150MHz)	\$44.05	\$42.62
212257	4915A (250MHz)	151.45	143.92

## Pomona 100MHz Probe Set

- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF
- Compensation range: 10-60pF • 48" cable

Part No.	Product No.	Description	1	10
156451	4550B	Probe kit	\$52.45	\$50.38

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high and low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930	Logic probe	\$29.95	\$26.99	\$24.29

## Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz pulse train
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
24601	Logic pulser	\$21.95	\$19.76	\$17.78

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs.

Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

## 100MHz Logic Analyzer USB Interface

DigiView™ is a new 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.

- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution

Part No.	Description	1	5
256866	USB logic analyzer	\$498.95	\$474.09
256874	Cable replacement	29.95	24.80
256882	Grabber clip set (10)	29.95	28.49

## METEX® 4-in-1 Universal System With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

- **Function generator** capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency from 0.2Hz to 2MHz
- **Universal counter** capable of measuring frequency ranges from 5Hz to 1.3GHz
- **DC power supply** capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- **Digital multimeter** with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400μF) and forward resistance of a semiconductor junction in kΩ
- Size: 14.5"W x 14.0"D x 7.0"H
- Weight: 37 lbs. • One-year warranty

Includes: Manual, cables and software

Part No.	Product No.	1	5
160864	MS9150	\$564.95	\$514.95

## Protek 3GHz Universal Counter

- High accuracy frequency measurements up to 3GHz
- Measures frequency, time interval, ratio, and totalize
- Large, bright 8-digit LED display with gate time and function indicators
- Frequency measurement: input A DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz with gate times of 0.01s to 10s in 4 decades; input B DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz; Freq C 100MHz to 3GHz with gate times of 0.0128s, 0.128s, 1.28s, and 12.8s
- Input voltage: 100/120/220/240V @ 50-60Hz
- Power consumption: 20W
- Size: 10.0"W x 11.0"D x 4.0"H • Weight: 5.3 lbs.

Part No.	Product No.	1	5
1581206	B3110	\$427.95	\$417.25

## 1.5GHz Frequency Counter

### 2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.3 lbs. • One-year warranty

Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790	FC-7150	\$284.95	\$259.95

## 2MHz 10MHz Sweep Function Generators w/ Frequency Counter

### Function Generator

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671) 1Hz to 10MHz (221911)
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Output impedance: 50Ω ±10%
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

### Frequency Counter

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sine wave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Maximum input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax and power cable, manual, serial cable and software

Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
192671	2MHz/2.7GHz	\$383.94	\$316.91
221911	10MHz/2.7GHz	417.95	403.34

## RF Signal Generator

- Frequency accuracy: ±3%
- RF output: 100mVRMS (up to 35MHz)
- Output control: high-low switch, fine adjustment
- Modulation: internal - 1kHz; external - 50Hz to 20kHz at less than 1Vrms
- Audio output: 1kHz min., 1Vrms (fixed)
- Input port for 1MHz to 15MHz crystal in type HC6U holder (crystal not included)
- Power requirements: 110V
- Size: 5.9"H x 9.8"W x 5.1"D • Weight: 7.2 lbs.

Part No.	Product No.	Price
684431	SG-4160B	\$263.94

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Waveforms: sine, triangle, square, TTL, and CMOS output; 229260 has ramp
- Frequency ranges: 229251: 0.2Hz – 2MHz in 7 ranges; 229260: 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control



229251

**INSTEK**



229260

### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251: • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260: • 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

**Includes:** Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251	GFG-8020H	2MHz	\$259.95	\$246.95
229260	GFG-8216A	3MHz	\$279.95	\$251.99

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch
- Size: 10.5"W x 11.2"D x 3.9"H
- Weight: 6.6 lbs.



Part No.	Product No.	1	5
685329	SK3000	\$209.79	\$199.35

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.
- Two-year warranty



**BK PRECISION**

Part No.	Product No.	1	5
160469	BK4011A	\$339.29	\$322.34



## 30-Watt Digital Benchtop Power Supply

- Single output, adjustable from 1.5VDC to 30VDC
- Compact design
- Input voltage: 85-264VAC @ 47-63Hz
- Output terminals
- Large digit backlit display
- A fixed current output
- Overload and short-circuit protection
- Size: 5.5"L x 5.2"W x 1.6"H
- Weight: 1.2 lbs.



Part No.	Product No.	1	10
301971	PSU130	\$79.95	\$75.95

## 30 & 54-Watt Digital Benchtop Power Supplies

- Single output
- Adjustable voltage output: 645600 = 0-30V; 681221 = 0-18V
- Adjustable current output: 645600 = 0-1A; 681221=0-3A
- Max. display resolution: 0.1V/10mA
- Color coded banana plug output jacks
- Input voltage: 120VAC @ 60Hz
- Size: 9.4"H x 4.3"W x 6.1"D

**EXTECH**



645600

Part No.	Product No.	Wt. (lbs.)	1	5
645600	382200 (30W)	4.4	\$128.69	\$115.82
681221	382202 (54W)	6.6	\$138.95	\$134.95

## Dual Tracking, Triple Output DC Power Supply

### Four Mode 60V/1.5A DC Regulated

- Linear power supply
- Four modes of operation: tracking, independent, series and parallel
- Dual independently or simultaneously adjustable 0V to 60V and 0A to 1.5ADC outputs
- Outputs of up to 120VDC in series mode or 3ADC in parallel mode
- Variable auxiliary metered output (1.5V to 6.5V) for power circuits of up to 5A
- Constant voltage and current mode
- Over load and short circuit protection
- Dual 4 digit LED displays
- Input voltage: 110 or 220VAC
- Voltage output range: 0 to 60V
- Current output range: 0 to 1.5A
- Size: 15.9"W x 9.8"D x 5.3"H



**EXTECH**

**NEW**

Part No.	Product No.	1	10
1585928	382285	\$497.99	\$487.99

Detailed specifications for Function Generators  
[www.Jameco.com/Prod/FunctionGen](http://www.Jameco.com/Prod/FunctionGen)

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price?  
We'll beat that price by 10%, right down to our cost!

## 90-Watt Digital DC Power Supply

### 30V @ 3A

- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant voltage and current operation
- Size: 5.1"W x 10.1"D x 5.9"H



Part No.	Description	1	5
489184	DRP-303D	\$189.95	\$179.95

## 150-Watt Digital Power Supply

### 30VDC @ 5A

- Adjustable voltage/current outputs
- 2A @ 250V fuse
- Constant voltage and current operation
- Dual digital display
- LCD displays for both current and voltage
- Coarse/fine adjustment knobs for current and voltage
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections
- Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs.
- One-year warranty



Part No.	Description	1	10	25
153243	30VDC @ 5A	\$249.99	\$229.99	\$199.99

## 200W Programmable Switching Power Supplies with PC Interface

- Voltage regulation: 10mV load; ≤0.05% line
- Current regulation: 5mA load; ≤0.05% line
- Output ON/OFF control
- Ripple: ≤20mVRMS; ≤10mARMS
- Over-voltage/over-current/over-power/over-temperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs.
- Two-year warranty



**INSTEK**

**Quantity SAVE**

**Includes:** Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229323	PSP-2010	0-20V @ 0-10A	\$349.95	\$332.45
229294	PSP-603	0-60V @ 0-3.5A	\$349.95	\$262.46

## 100-Watt Triple Output Digital and Analog DC Power Supplies

### 30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage or current
- Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.



197991

**EXTECH**

Part No.	Description	1	10
197991	Digital DC	\$198.95	\$178.95
197982	Analog DC	\$168.95	\$151.95



## 45W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 115/230  $\pm$ 10% VAC

- Analog display power supplies**
- Accuracy: 2.5%
- Digital display power supplies**
- Voltage accuracy: 1% + 2 digits
  - Current accuracy: 1.5% + 2 digits

**Quantity SAVE**



### Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
301920	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	\$119.94	\$113.94
301866	HY3003D	2-Digital LCD	90	30/3	5.4 x 6.2 x 11.5	10	179.95	134.96
207618	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	169.55	161.07
207626	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	359.94	269.96
207693	HY5002	2-Digital LED	100	50/2	5.4 x 6.2 x 11.5	13	227.94	170.95
301938	HY3005	2-Digital LED	315	0-30/5	10.5 x 6.5 x 14.3	10	219.95	209.95
301911	HY3005D	2-Digital LCD	150	30/5	5.4 x 6.2 x 11.5	13	224.95	213.70
207706	HY5003	2-Digital LED	150	50/3	5.4 x 6.2 x 11.5	13	267.45	200.58
207600	HY5005	2-Digital LED	250	50/5	10.4 x 6.5 x 14.4	17	339.95	322.94
207635	HY3010	2-Digital LED	300	30/10	10.4 x 6.5 x 14.4	31	439.95	335.50
207686	HY3020	2-Digital LED	600	30/20	10.4 x 6.5 x 14.4	42	555.35	499.82

### Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211722	HY3002-2	2-Digital LED	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	269.95	209.52
211705	HY3002D-2	4-Digital LCD	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	269.95	202.46
211693	HY3003D-2	4-Digital LCD	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	318.95	285.95
211730	HY3003-2	2-Digital LED	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	299.95	224.96
211713	HY3003-3	2-Digital LED	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	319.95	239.96
211684	HY3003D-3	4-Digital LCD	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	329.95	296.95
301947	HY3005D	4-Digital LCD	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	384.95	365.70
301955	HY3005D-3	4-Digital LCD	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	406.95	386.60
301962	HY5003-2	2-Digital LED	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	339.95	254.96

## 150-Watt Power Supply

### 50VDC @ 3A

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Input voltage: 110VAC @ 60Hz
- 3A @ 115V fuse
- Color-coded terminals for ground, positive and negative terminals
- Color-coded adjustment knobs for voltage, current and fine adjustment
- One-year warranty



Part No.	Description	Color	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
163723	50VDC @ 3A	Dark gray	9.0 x 4.75 x 7.5	12.3	\$146.85	\$139.49	\$132.49

## 150 to 250-Watt Analog Power Supplies

- Color-coded adjustment knob and output terminals for voltage
- Built-in fan
- Voltage and current panel meter
- Constant voltage and current operation

### 175265: 15VDC @ 10A, 150-Watt

- Output current: 15A max.
- Input voltage: 110VAC @ 60Hz
- Over-voltage, over-current, short-circuit protection
- Cigarette lighter plug for current output
- LED indicator for power and warning



175265



175257



175249



### 175257: 15VDC @ 15A, 225-Watt

- Output current: 25A max. (22A continuous @ 13.8VDC)
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- LED indicator for power and warning
- Over-voltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Cigarette lighter plug for current output

### 175249: 50VDC @ 5A, 250-Watt

- 5A @ 250V fuse
- Input voltage: 110VAC @ 50-60Hz
- Isolated ground

Part No.	Cross Ref. No.	Output Voltage	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
175265	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	\$163.45	\$147.10	\$141.65
175257	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	159.95	143.95	129.56
175249	DPS5050	0-50VDC	4.9 x 7.7 x 6.7	13.8	195.65	185.35	176.64

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Precision 200-Watt Programmable DC Power Supply

- High resolution programmable output and two fixed outputs of 5V and 3.3V
- Selectable constant voltage or current modes
- Auto output of up to 200 steps with programmable voltage, current and time
- Programmable over voltage and over current protection
- Storage/recall memory for 200 test set-ups
- Dual high contrast LCD display with backlight
- Dual output terminal for source and monitor connections
- Size: 12.2"W x 9.9"D x 5.3"H



**EXTECH**

Part No.	Product No.	1	10
1585901	382280	\$597.99	\$587.65



## Pocket IR Thermometer with Laser Pointer

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.



- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- F/°C switchable • 6:1 field of view
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- Size: 3.8"L x 2.0"W x 0.9"D
- Pocket size meter
- Data hold/max hold

**Includes:** 2 AA batteries

Part No.	Description	1	5
219361	Pocket IR thermometer	\$59.95	\$56.99

## Non-Contact Infrared Thermometer w/ Laser Pointer

- Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface applications
- Temperature range: 0°F to 600°F (-20°C to 320°C)
- Basic accuracy:  $\pm$ 2% of reading
- 2000-count backlit LCD display
- Audible and visible over-range indicators
- Size: 8.3"L x 3.5"W x 1.5"D



**EXTECH**

**Includes:** 9V battery

Part No.	Product No.	1	10
211588	42529	\$97.85	\$92.95

## EXTECH Mini IR Thermometer

- Economical mini-size design for convenience
- Automatic data hold when measure button is released
- Maximum or minimum hold
- Field of view: 1:1
- Temperature range: -31°F to 446°F (-35°C to 230°C)
- Lock feature for continuous scanning
- Maximum resolution: 0.1°F/°C
- Fixed emissivity covers 90% of surface applications
- Auto power off
- Size: 3.0"L x 1.6"W x 0.7"D



Part No.	Product No.	1	5
1537299	IR100	\$29.25	\$28.49

## Mini Thermo-Anemometer

Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- 0°F to 122°F (-18°C to 50°C)
- Measures wind speed in ft/min., MPH, m/s, km/h, knots and Beaufort force
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'



**Includes:** CR2032 lithium battery and lanyard

Part No.	Product No.	1	5
218085	45118	\$89.95	\$87.75

## EXTECH Temperature/Humidity Meter w/ Min/Max Memory

- Displays (%) relative humidity and temperature (°C/°F) simultaneously
- Min./Max. memory on both relative humidity and temperature with reset function
- Humidity range: 10% to 99%
- 1" high readout
- Size: 4.3"L x 3.9"W x 0.8"Thick
- Temperature range: 14°F to 140°F (-10°C to 60°C)



**Includes:** Built-in tilt stand, AAA battery, and wall mounting bracket

Part No.	Product No.	1	10	25
198045	445703	\$38.05	\$36.14	\$34.35

## EXTECH Moisture Meter

- Adjustable pins for wood and other porous building materials
- Moisture content: 0 - 100
- Temp. range: 32°F to 122°F (0°C to 50°C)
- Unique dual LCD displays wall moisture and air temp. simultaneously
- Moisture content displayed on a relative scale
- Multi-position pins w/ safety storage for replaceable pins
- Data hold to freeze reading on display
- Low battery indication
- Selectable slide switch
- Calibration adjustment for better repeatability
- °C/°F switchable • Size: 7.6"L x 1.8"W x 0.8"D



**Includes:** 2 AAA batteries, 10 spare pins & pouch case

Part No.	Product No.	1	10
1581134	MO100	\$59.95	\$57.45

## EXTECH Digital Psychrometer

### External Probe Temperature Measurements for Differential

Unique sensor cap design twists to closed position for protection during storage.

- Simultaneous display of %RH, temp. and dew point or wet bulb or probe temp.
- Temp. ranges: (internal) -4°F to 122°F (-20°C to 50°C); (external) -4°F to 158°F (-20°C to 70°C)
- Temp. ranges: -90.4°F to 122°F (-68°C to 49.9°C)
- Wet bulb measurement without slinging
- Calculates T1-T2 differential (air temp. minus external probe temp. using optional probe)
- Data hold freezes current reading on display
- Switchable °F/°C temp. reading • Auto power off
- Min./max. readings • Size: 7.0"L x 1.9"W x 1.0"D



Part No.	Product No.	1	10
1581142	RH300	\$89.95	\$86.59
1581151	TP890 (optional thermistor temperature probe)	15.95	14.99

## EXTECH Combustible Gas Leak Detector

- Detects combustible gas – liquefied natural gas (LNG) and liquefied propane gas (LPG) from 500 to 6500ppm
- Convenient compact portable size
- Highly sensitive detection circuitry
- Audible and visual alarm
- LED indicators for gas leakage & static absorption
- Continuous operation up to 4 hours
- One switch operation
- Size: 6.5"L x 0.8"Dia.

**Includes:** 2 AAA batteries

Part No.	Product No.	1	10
1581169	FG100	\$59.95	\$58.95



## EXTECH Remote & Local Continuity Tester

- Local continuity checking is accomplished by a flashing LED and pulsating beeper
- Remote continuity is accomplished with the use of a remote probe, it does not tie up two people when identifying and labeling wires and cables
- Two lead, bi-color led (red/green) is used on the remote probe that allows a single user to identify up to three wires or cables at a time
- Drives a 20mA DC current pulse through wires or cables under test for polarity identification



Part No.	Product No.	1	5
1537272	CT20	\$29.25	\$28.49

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

## EXTECH Pen DMM with Non-Contact Voltage Detector



- Large 2,000 count LCD display
- Non-contact voltage detection with visible & audible alarm
- Retractable tip for safe storage
- Auto ranging with data hold, range hold, & maximum hold • Auto power off
- Overload & low battery indication
- Non-contact voltage range: 50VAC to 600VAC
- DC voltage ranges: 200mV to 600V with 0.1mV resolution
- AC voltage ranges: 200mV to 600V with 0.1mV resolution
- Resistance ranges: 200Ω to 20MΩ with 0.1Ω resolution • Diode & continuity test
- Size: 8.2"L x 1.5"W x 1.1"D • Weight: 0.3 lbs.

**Includes:** Test leads with alligator clips, two 1.5V AAA batteries, and carrying case

Part No.	Product No.	1	5
1537184	381676	\$38.99	\$37.99

## EXTECH Non-Contact AC Voltage & Current Detector



- The only 2-in-1 non-contact AC voltage and current detector
- Non-contact AC current detection range: 200mA to 1000A
- Non-contact AC voltage detection range: 12V to 600VAC
- Current sensor detects current flow through shielded wires, conduit, & metal circuit breakers/junction boxes
- Sensitivity adjustments to increase or decrease sensor trigger threshold
- Audible & visible sense detect indicators
- Detects current flow of 400mA @ 0.2" distance, longer distances for larger current flows
- Size: 7.6"L x 1.2"W x 0.9"D • Weight: 0.2 lbs.

**Includes:** Four LR44 button type batteries and clip

Part No.	Product No.	1	5
1537192	DVA30	\$38.99	\$37.99

## EXTECH AC Circuit Breaker Finder/Receptacle Tester

- Quickly locates 110V to 125V AC circuit breaker and fuses
- Variable sensitivity adjustment to pinpoint correct circuit breaker
- Bright red and green LEDs indicate if receptacle is correctly wired for six fault conditions
- Push button GFCI test
- Audible and visual circuit breaker indication
- Eliminates circuit interruptions
- Applications: locate branch circuit breakers without flipping breakers, confirm proper wiring during installations or repairs, test receptacle ground fault operation
- Size: 8.5"L x 2.3"W x 1.5" Thick



Part No.	Product No.	1	5
1585899	CB10	\$29.95	\$29.29

## EXTECH Digital Sound Level Meter

- Type 2 meter with manual data store; recalls up to 99 readings
- High accuracy
- AC/DC analog output
- Wide decibel range: 40dB to 130dB
- Max/min recording with elapsed time stamp
- A & C weighing
- Large 2000 count LCD display with analog bargraph
- 0.5" condenser microphone
- Size: 10.3"H x 2.6"W x 1.0"D



Part No.	Product No.	1	5
645642	407730	\$79.89	\$74.95

## Digital Light Meter

- Measures in Lux and footcandle ranges
- Range: Lux – 0 - 50,000 Lux (3 ranges); footcandle – 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs.
- One-year warranty



Part No.	Description	1	10
131764	Digital light meter 	\$99.95	\$89.95

## Handheld HDTV Pattern Generator

B&K Precision's model 1253 is an affordable HDTV test pattern generator that delivers accurate test patterns for the testing of the most common HDTV displays including Plasma, LCD, TFT, CRT, DLP, GLV and OLED digital display products. The 1253 can display from its HDTV Component (YPbPr) outputs fourteen of the most useful patterns for twelve of the most commonly used video formats (S-Video output patterns provide luminance only). The 1253 displays the most popular formats including 1920 x 1080 30i, 1280 x 720 60p, 704 x 480 60p, NTSC, PAL & SECAM. A unique feature of the 1253 is the Overscan DVD Aspect Ratio pattern. This feature covers the most commonly use aspect ratios used for all movies recorded to DVD media.



- Patterns: SMPTE bars, PLUGE, needle, color bars, cross hatch, DVD Aspect Ratio, raster, multiburst, focus, staircase, window, checker, overscan
- Y output: 1Vp-p into 75Ω
- S-video (SVHS) 5-pin DIN connector
- Power source: 9V battery • Red LED power indicator
- Size: 5.6"L x 3.1"W x 1.1"H

Part No.	Description	Price
681504	HDTV pattern generator	\$595.05



For Network Testers,  
Adapters & Converters  
See page 260.

## ZapChecker (RF Field Strength Meter)

Detect and measure all those weak radio signals on HF, VHF, UHF or Microwave frequencies. Ideal for discovering wireless bugs and covert cameras, the ZAPCHECKER also works well to help install wireless security systems and wireless computer networks by checking where the strongest signal is. Measure electromagnetic radiation and emissions from microwave ovens, cell phones, wireless phones, and electronic equipment. ZC-300 (667817) includes a log periodic antenna for that extra boost in locating and measuring signals and a BNC connector if you choose to use other antennas.



667796

Totally Unique

- Sensitivity control: 20dB, (10 to 1) signal control range
- Sensitivity: (667796) 70μV; (667817) 45μV
- Detection modes: LINEAR – for far-field detection of weakest signals: 10dB for ZC-185 and 12dB for ZC-300
- Dynamic range: LOG – for near-field localization without overloading: 60dB
- Dynamic range MID – for intermediate detection and localization: 25dB dynamic range
- Analog mode: for detecting and measuring continuously transmitted signals
- Digital mode: for detecting, identifying, and measuring digitally pulsed signals
- Silent vibrator: intensity modulated, switch-enabled vibrator for mid to high level signals
- Analog meter display for visual indication of changes and levels of RF signals
- LED display indicators
- Approximately 80 hours of battery life (2 x AA batteries) • Size: 2.1"W x 1.3"D x 5.0"H

Part No.	Description	Frequency	1	10
667796	ZC-185	3MHz-5GHz	\$158.95	\$150.95
667817	ZC-300	1MHz-8GHz	\$398.95	\$370.45

## Phone Line Tester

- Loop limit: 2kΩ max. @ 48VDC
- DC resistance (talk mode): 300Ω typical
- Monitor impedance: 39kΩ nominal @ 1kHz
- Monitor amplifier: 9V transistor provides 25 hours continuous use
- Auto power shut-off
- Power source: shared line and battery power (9V)
- Size: 10.3"L x 2.8"W x 3.5"H



Part No.	Product No.	Price
673707	MT-8001	\$188.95

## How to Test Almost Everything Electronic

**TAB Publishing** Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

- Size: 7.4" x 9.3" • Weight: 1.3 lbs.



Part No.	Description	1	10
126199	How to Test Everything	\$18.15	\$16.31

## RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.



Part No.	Description	1	10	100
26729	Mini-tester 	\$11.95	\$10.76	\$9.68

## RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.



Part No.	Description	1	10	100
22728	Loopback tester	\$6.95	\$5.95	\$4.45

## RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.



Part No.	Description	1	10	100
14285	Check line tester 	\$10.74	\$9.71	\$8.70

## Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.




**Includes:** 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181	Breakout box 	\$10.74	\$9.54	\$8.34

## Flexible Multilink RS-232 Tester & Breakout Box

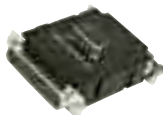
Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" and reconfiguration. Connectors: DB25 male & DB25 female.

• Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H  
**Includes:** Handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945	Tester/breakout box 	\$27.54	\$23.94	\$21.54

## RS-232 Signal Adapter/Splitter

- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts



Part No.	Description	1	10	100
105196	Serial adapter	\$9.54	\$8.34	\$7.14

## PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. PC Cable-Check Pro tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.



- Easy to read LED indicators for mapping connections
- Auto power off, auto scan, and manual scan

**Paladin Tools®**

Includes: 9V battery

Part No.	Product No.	Price
652480	1577	\$164.95

## EXTECH Network and CATV Cable Tester

Continuity tester for twisted pair cables and F-type CATV coax cables.

- Tests for shorts, opens, miswires, and reversals
- Tests EIA/TIA568A and 568B, 10Base-T
- Shield detection test
- Tests cable lengths from 3 ft. to 600 ft.
- Size: 3.25"H x 2.0"W x 1.25"D



Includes: 2 AAA batteries



Part No.	Product No.	Price
645634	CT100	\$29.95

## GG LANtest Network and Modular Cable Tester

- Tests 10Base-T, 10Base-2 thin ethernet cable, RJ45/RJ11 modular cables, 356A, TIA568A/568B and token ring cable
- Easy to verify cable continuity, open, short and miswire
- Can test the grounding
- Power switch provided for saving battery power



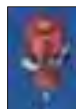
Part No.	Product No.	1	10	50
615136	45-5767-0000	\$122.75	\$110.49	\$99.45

## Banana Jacks

- Fully insulated
- Size: .937"L x .433"Dia.
- .182" solder tab
- Chassis mounting

**NEW**

1582170



Part No.	Product No.	Color	1	5	50
1582170	6091	Red	\$.69	\$.62	\$.56
1582188	6092	Black	\$.69	\$.62	\$.58

## Pomona

## BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"



Part No.	Product No.	1	10
176954	5187-K-36	\$25.25	\$24.02

## Pomona

## BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"



Part No.	Product No.	1	10
176971	4532-C-36	\$18.95	\$16.95

## Pomona

## BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871: 36" P/N 159880: 60"



Part No.	Product No.	1	10	25
159871	2249-C-36	\$16.59	\$14.97	\$13.47
159880	2249-C-60	16.79	15.95	14.95

## Pomona

## Stackable Banana Test Lead Cables



- 5000V @ 15A • 55°C max.
- 159898: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation
- 159901: Two 24" leads
- 159919: Two 36" leads

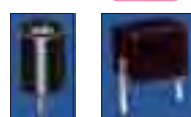
Part No.	Prod. No.	Description	1	10	25
159898	3782-36	Mini w/ banana	\$9.95	\$9.45	\$9.00
159901	B-24-02	Patch cord	10.65	9.58	8.51
159919	B-36-02	Patch cord	10.65	9.58	8.51

## TESTCLIPS

## Test Jacks

**NEW**

- Current rating: 5A
- Accepts .080" tip
- Black



- 1582145/1582153: Vertical
- Size: .312"L x .187"Dia.

- 1582161: Horizontal
- Size: .208"L x .203"H x .147"W

Part No.	Product No.	Description	1	5	50
1582145	6038	PC Mount	\$.47	\$.42	\$.42
1582153	6040	Snap-fit	1.36	1.27	1.16
1582161	6050	PC Mount	\$.69	\$.68	\$.67

## Pomona

## Solderless Banana Plugs



- Nickel-plated
- ABS insulation
- Set screws secure leads
- 5000VDC @ 15A
- Sets include 1 black and 1 red
- 50°C max.

159863: w/ safety collar

159855: w/ set screw

159927: double banana plug w/ wire guide

**Lower \$\$\$**

Part No.	Prod. No.	Description	1	10	25
159863	1825-02	Safety collar	\$3.29	\$2.99	\$2.69
159855	1325-02	Set screw	3.49	3.17	2.85
159927	MDP-02	Double banana	5.15	4.89	4.64

## BNC to Standard Double Banana Plugs



Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11440	BNC banana plug (F)	\$5.94	\$5.39	\$4.79
125225	BNC banana plug (M)	7.26	6.17	4.64

## JAMECO BenchPro Double Banana Plugs

- Dual gold-plated female banana plugs
- Stackable



Part No.	Description	1	10	100
125210	Black banana conn.	\$3.18	\$2.70	\$2.03
125218	Red banana conn.	3.15	2.82	2.54

## JAMECO BenchPro 1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount w/ lock washer and nut
- Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.



Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71240	Binding posts (2)	\$1.05	\$.90	\$.74	\$.63

## JAMECO BenchPro

## 1 3/4" Screw/Solder Binding Posts

- For both wire & standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.06"Dia.
- Size: 1.8"L x 0.5"Dia.



Includes: One red and one black

Part No.	Description	1	10	100	1000
77691	Binding posts (2)	\$1.31	\$1.14	\$.95	\$.83

## JAMECO BenchPro

## Double-Banana Plug to Alligator Clips Test Cable

- Red & black rubber boot
- 4" lead wire
- Length: 3'





Part No.	Description	1	10	50	100
107423	Test cable	\$4.74	\$4.19	\$3.54	\$2.99

## JAMECO BenchPro Mini Test Clips

- Two lengths
- Includes: One black and one red hooked probe clip



Part No.	Description	1	10	100
114809	1.75" mini test clips 	\$2.19	\$1.71	\$1.55
114818	3.5" mini test clips 	2.10	1.79	1.35

## JAMECO BenchPro Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors



Part No.	Description	1	10	100
10444	Alligator leads	\$4.39	\$3.95	\$3.56

## JAMECO BenchPro BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips - red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector



Part No.	Description	1	10	100
11384	BNC cable 	\$4.05	\$2.89	\$2.61

## JAMECO BenchPro Insulated Alligator Clips

- Color-coded
- Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W



Includes: One red and one black clip

Part No.	Description	1	10	100
70991	Alligator clips 	\$0.39	\$0.36	\$0.33

## JAMECO BenchPro 1 1/4" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening
- Size: 1.6"L x 0.4"Dia.



Includes: One red and one black plug

Part No.	Description	1	10	100
72195	Banana plugs 	\$1.59	\$1.49	\$1.25

## JAMECO BenchPro 2 1/4" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W
- Set-screw connection








Includes: One red and one black connector

Part No.	Description	1	10	100
137526	Banana plugs 	\$2.95	\$2.12	\$1.84

## JAMECO BenchPro Alligator Clips

- Sold in increments of 2

Lower \$\$\$

Part No.	Description	Size (L"xW")	2	4	10
248921	Mini-alligator clip solder/crimp 	1.2 x 0.3	\$0.336	\$0.30	\$0.276
256525	Alligator clip, barrel/screw 	1.9 x 0.2	.45	.38	.35
248939	Alligator clip, solder/crimp 	1.6 x 0.3	.525	.485	.424
248972	Red ins. for 248939/256525 	—	.255	.245	.235
248962	Blk. ins. for 248939/256525 	—	.23	.21	.18




## JAMECO BenchPro BNC Female Connector with 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector into your test equipment and you have an instant testing board for varied applications.

- BNC female connector
- 7" 20AWG lead wires



Part No.	Cross Ref. No.	1	10	100
256831	CBB-069 	\$5.39	\$5.15	\$4.89

## JAMECO BenchPro Micro Test Clip

- One piece per package

Quantity SAVE



Part No.	Description	1	10	100
153162	1.6" micro test clip 	\$0.95	\$0.81	\$0.61

## JAMECO BenchPro Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire





Part No.	Description	1	10	100
135299	Mini test leads 	\$11.49	\$10.39	\$9.29

## JAMECO BenchPro Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- 20 AWG insulated wire
- Length: 3.5'



Part No.	Description	1	10	100
21857	Black test cable 	\$3.95	\$3.55	\$2.99
21865	Red test cable 	3.95	3.49	2.99

## JAMECO BenchPro Banana-to-Banana Test Leads

- Stackable
- Color coded: 2 each red, yellow, blue, black, white
- 9.8" long
- 10 per package
- 18 AWG wire



Part No.	Description	1	10	25
77842	Test leads 	\$22.95	\$20.69	\$18.59

## Test Clip

- Hexnut for adjusting tension
- Rapid easy connectors
- Threaded stud standard



Part No.	Prod. No.	Description	1	10	100
469087	02-0	Threaded std	\$2.35	\$2.28	\$2.21

## 0.025" (0.64mm) Square Pin To Straight Banana Plug Adapter

- Excellent for use as a jumper on circuit cards with 0.6mm (0.025") square pins and equipment with 4.2mm (0.166") diameter pin jacks
- Plug body: brass alloy
- Insulation: polypropylene
- Connector: in-line banana plug
- Spring material: beryllium copper alloy
- Wire: 22AWG stranded (26 x 36) PVC insulated, 36" long
- Pin connector: 0.64mm (0.025") square pin receptacle, phosphor bronze gold plated



Part No.	Product No.	Color	1	5	10
684553	4771-36-0	Black	\$6.09	\$5.95	\$5.79
684570	4771-36-2	Red	6.09	5.95	5.79

## Pomona Micro SMD Oscilloscope Tip Adapter

- Adapter attaches to monolithic type oscilloscope probes
- Interface with Pomona's micro SMD grabbers
- Adapter provides electrical connection to probe tip and probe head grounding area
- Dual leads allows oscilloscope probe to attach to 0.025" (0.64mm) diameter posts



Part No.	Product No.	1	5	10
684588	6443	\$56.69	\$55.19	\$53.65

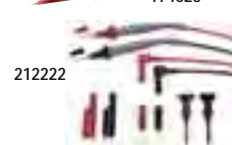
## PROBE MASTER Probe Test Leads

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"



174625 Includes: 10 plunger type tips

212222 Includes: 10 pieces; screw-on alligator clips, spade lugs and spring hooks



Part No.	Description	1	10	25
174625	Micro tip test leads	\$36.35	\$34.52	\$33.14
212222	Softie test leads	24.79	23.56	22.41

## PROBE MASTER

### Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks



Part No.	Description	1	10
212249	Elect. deluxe probe kit	\$75.19	\$71.45

### Micro SMD Grabber® Test Clips For 0.05" (1.25mm) to 0.02" (0.5mm) Lead Pitch

- Use with PQFT & SOIC packages with 0.02" lead pitch or greater
- Pincers are stationary, housing moves to close tips together
- 20mm long tip allows measurement at IC leads that are not easily accessible
- Thin body style allows an unlimited numbers of clips to be stacked side by side
- Device under test must be inactive when connecting pincers
- Max. frequency: 100MHz
- Flying lead connection: gold plated copper



Part No.	Product No.	Color	1	5	10
684481	6490-0	Black	\$25.35	\$24.95	\$24.59
684490	6490-2	Red	25.35	24.95	24.59

### Micro SMD Grabber® Test Clip for 0.05" (1.25mm) to 0.01" (0.2mm) Lead Pitch

- Use with PQFT & SOIC packages with 0.2mm lead pitch or greater
- 8mm long tip allows measurement at IC leads that are not easily accessible
- Max. frequency: 100MHz
- Leads: stainless steel wire
- Thin body style allows an unlimited numbers of clips to be stacked side by side
- Tip tubing: Teflon™ coated nickel plate copper
- Flying lead connection: gold plated copper



Part No.	Prod. No.	Lead Ht.	Pitch	Tip	1	5	10
684502	6311	0.55"	0.03"-0.01"	Long	\$86.45	\$85.05	\$82.39
684537	6312	0.55"	0.05"-0.01"	Long	87.45	86.05	83.35
684545	6313	0.55"	0.05"-0.01"	Short	75.69	74.49	72.15

### BNC to Clip Test Cables



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip
- Length: 39"

Part No.	Description	1	10	50	100
11422	Micro-clip RG174	\$3.99	\$3.19	\$2.89	\$2.59
11464	Mini-clip RG174	4.39	3.99	3.59	3.19

### Panel Mount Tip Jacks 1/4" - 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin
- Material: brass
- Insulation: polycarbonate
- 10 per package



Part No.	Cross Ref. No.	Color	1	10	100
256779	R1-17-BLK	Black	\$8.59	\$8.15	\$7.75
263864	R1-17-RED	Red	8.59	8.15	7.75

### Double Binding Posts - Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W



Part No.	Description	1	10	100
125197	Double bind post	\$4.74	\$4.14	\$3.83

### BNC to Double Binding Posts - Dual Banana

- Red/black design



Part No.	Description	1	10	100
125233	BNC-female	\$5.94	\$5.39	\$4.86
99354	BNC-male	5.29	4.76	4.28

### Universal Test Lead Kit

Includes: 3' black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug



Part No.	Description	1	10	100
168516	Universal kit	\$8.95	\$7.61	\$5.71

### Protected Banana Style Multimeter Test Probes

- Threaded/pointed test tip
- Black and red
- 18 AWG wire
- 42" long
- 2 per package



Part No.	Description	1	10	25
77737	Protected probes	\$6.49	\$5.85	\$5.25

### Standard Banana Style Multimeter Test Probes

- Black and red
- 18 AWG wire
- 2 per package
- 42" long



Part No.	Description	1	10	25
77746	Std. banana probes	\$7.69	\$6.95	\$6.25

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242

## FLUKE

### Probe Light & Kit

Do not risk shorting out expensive electronics or risk shock in high voltage panels. With this white LED probe light, simply snap on to any test probe or leads and you will have an instant hands-free light at your fingertips.

- 120 hours of battery life
- Uses 2 3-volt watch batteries

667518: Probe Light kit includes L200 probe light, TL71 premium test lead set, and case



667518



667497

Part No.	Product No.	1	3
667497	L200	\$17.95	\$17.05
667518	L211	41.95	39.85

### Replacement Probe Test Lead Set

- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors



Part No.	Product No.	1	10	25
155951	5519A	\$14.99	\$13.69	\$12.99

### Minigrabber® Test Clip Patch Cord Kit

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends



Part No.	Prod. No.	Description	1	10
156494	5523	Patch cord (hook)	\$43.74	\$40.23

### 11"L Test Lead Holders

- Max cable dia.: 0.450"
- Max cable dia.: 0.320"
- Max cable dia.: 0.210"



155985

Part No.	Prod. No.	Slots	Color	1	10	25
155985	2708B	9	Blue	\$11.29	\$10.99	\$10.25
155977	4408	10	Black	11.49	10.69	9.99
155969	1508	14	Orange	12.95	11.75	10.79

### 40-Piece Electronic Tech Tool Kit

- The kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - Potentiometer alignment tools
  - T10-T25 reversible Torx screwdriver bits
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - 10-pc screwdriver set
  - Extra long 3-claw parts holder
  - IC inserter w/ pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H
- Weight: 1.7 lbs.



Quantity SAVE

Part No.	Description	1	10	25
119183	40-piece tool kit	\$21.95	\$18.66	\$14.00

## 51-Piece Tech Tool Kit

Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix right, the kit includes:
  - 2 nut drivers
  - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

Part No.	Description	1	5
26681	51-piece tool kit .....	\$99.95	\$81.95

## 55-Piece Tech Tool Kit

An assortment of tools for general & precision work for technicians, engineers, students, etc.

- In addition to the tools listed in the matrix right, the kit includes:
  - Screwdriver handle
  - 6-pc mini-hammer set
  - 5-pc of double edge blade
  - PLCC extraction tool
- Outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 266-269)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.

Part No.	Description	1	5
136311	55-piece tool kit .....	\$136.69	\$119.21

## 57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- In addition to the tools listed in the matrix right, the kit includes:
  - 5" & 6" side cutter
  - 5" & 6" long nose pliers
  - 8" combination pliers
  - 9.5" water pump pliers
  - Alignment driver
  - Parts tube
  - 5-piece file set
  - 6" stainless scissors
  - Testing driver
  - Solder wick
  - PVC insulated tape
  - Oil can
  - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No.	Description	1	5
218245	Master electronic tool kit ...	\$130.99	\$120.99

## 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits
- Driver handle
- Compact carrying case
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.

Part No.	Description	1	10	25
170069	26-pc. SAE tool set ....	\$17.95	\$16.16	\$13.69

## 100-Piece Professional Electronics Tool Kit

Kit for field technicians and engineers!

- In addition to the tools listed in the matrix below, the kit includes:
  - Computer/polarity circuit tester
  - Mini vacuum cleaner
  - Cassette head cleaning fluid
  - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5
242851	100-piece tool kit .....	\$199.95	\$189.95

## 114-Piece Tech Service Tool Kit

- In addition to the tools listed in the matrix below, the kit includes:
  - 40-pc socket pack
  - 6" side cutter
  - 6" long nose pliers
  - 6" slip joint pliers
  - Carpenter hammer
  - 3 piece trimmer set
  - Stainless steel spring hook
  - Solder wick
  - 8" combination pliers
  - 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	114-piece tool kit .....	\$289.99	\$259.99

### Quick-Reference Table of Additional Tool Kit Contents

Parts included in kits	26681	136311	218245	242851	149024
3-prong holder		1	1	1	1
Anti-static strap		1		1	1
Brush	1	1	1	1	1
Crimping tool		1 (7-way)	1	1	1
Desoldering pump	1	1	1	1	1
Digital Multimeter	1			1	
Drill set					1
Files, needle	2-pc			6-pc	5-pc
Flashlight		1	1	1	1
Forceps					1
Heat sink		1	1		1
IC extractor		1	1		1
Inspection mirror			1		1
Measuring tape, 10-foot	1		1		1
Pliers, 8" lineman		1		1	
Pliers, bent needle nose	1	1	1	1	1
Pliers, diagonal cutter	1	1	1	1	1
Pliers, flat nose	1	1		1	1
Pliers, snipe nose					1
Scissors	1		1	1	
Screwdriver set	8-pc	3-pc	8-pc	12-pc	9-pc
Screwdrivers, precision	6-pc	6-pc	6-pc	6-pc	6-pc
Solder core		1	11	1	1
Soldering aid kit, 3-pc	1	1	1	1	1
Soldering iron	1 (30W)	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand	1		1	1	
Tape, electrician				1	1
Tweezers	1	2	1	1	1
Utility components box	1		1	1	1
Utility knife	1	1	1	1	
Wire stripper					1
Wrench, adjustable		1	1	1	1
Wrench, hex key	7-pc	7-pc	7-pc	7-pc	7-pc
Wrench set			6-pc	5-pc	10-pc
<b>Total Pieces</b>	<b>51</b>	<b>55</b>	<b>57</b>	<b>100</b>	<b>114</b>
<b>Price</b>	<b>\$99.95</b>	<b>\$136.69</b>	<b>\$130.99</b>	<b>\$199.95</b>	<b>\$289.99</b>

## 11 & 12-Piece Lightweight Computer-Service Tool Kits

- Both kits include:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers



Quantity SAVE 167206

### 167206: 11-Piece Tool Kit

- Clear components, tube holder

### 14189: 12-Piece Tool Kit

- 14-16 pin IC inserter/straightener



14189

Part No.	Description	1	10	25
167206	11-piece tool kit .....	\$13.25	\$9.83	\$7.37
14189	12-piece tool kit .....	16.95	15.26	13.73

## 24-Piece PC Premium Tool Kit

- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- 3 prong holder
- Spring tweezer
- Spare parts tube
- IC extractor
- Extension bar for ratchet bits
- Torch
- Adjustable ratchet screwdriver
- Side cutter pliers
- Long nose pliers
- 5mm and 7mm slotted bit
- #1 and #2 Phillips bit
- T10, T15, T20, T25, and T30 Torx bit
- 1/4" and 3/16" nut
- Socket adapter
- Size: 8.4"L x 5.9"W x 1.4"H • Weight: 1.3 lbs.



Part No.	Description	1	5
226085	24-piece premium tool kit	\$17.95	\$14.36

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

## Aluminum Tool Case

This heavy-duty case is made of lightweight durable aluminum. A single inside panel and adjustable compartments easily carry hand tools, small soldering equipment, hand-held test equipment, and more.

• Size: 19.0"L x 14.0"W x 6.0"D



Part No.	Description	1	5
261884	Tool case	\$49.95	\$44.95

## Heavy-Duty Tool/Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

• Size: 19.0"L x 14.0"W x 6.0"D



Part No.	Description	1	5
261877	Tool/equipment case	\$48.59	\$44.15

## 2-In-1 Zippered Tool Bag

A high-quality tote case that can be used as two separate bags or zipped together as one case. The first bag has two large pouches for documents and paperwork or large items. The second bag contains 20 pockets for tools.

• Size: 16.0"L x 12.0"W x 2.5"D



Part No.	Description	1	5
261868	Tool/tote case	\$24.25	\$22.09

## Double Layer Nylon Tool Bag

This nylon tool bag provides enough space to carry your tools anywhere. Zippered bottom panel for long flat tools, 8 external pockets and 4 internal pockets for everyday use tools.

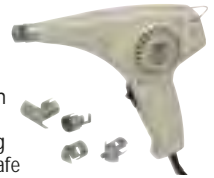
• Material: double layer rugged nylon  
• Color: light brown and green  
• Size: 15.5" (38.1 x 19.0 x 30.5cm)



Part No.	Product No.	1	5
645511	VTBAG2	\$39.95	\$37.45

## Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord



Part No.	Product No.	Wt. (lbs.)	1	10
191943	6966C	1.2	\$135.85	\$121.42

## 1000-Watt Heat Gun

- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts
- Input voltage: 110-120VAC



Part No.	Description	1	6	12
254925	Heat gun	\$42.55	\$41.10	\$36.85

## Heat Gun/Stripper

### Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed • Weight: 1.8 lbs.
- Size: 9.3"L x 7.0"W



Part No.	Description	1	10	25
76865	Heat gun	\$39.95	\$35.95	\$31.95
217816	Heat shrink attachment	1.95	1.66	1.25
217832	Air spreader	1.95	1.66	1.25

## High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the same bit, faster and easier.

Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.

229657: • Shank size: 3/8" • 2.4" long  
172401: • Shank size: 1/4" • 2.5" long

Part No.	Description	1	10	25
229657	3/16" - 7/8" 13-step	\$14.95	\$12.71	\$12.37
172401	3/16" - 1/2" 6-step	11.05	9.94	8.83

## 9-Piece Assorted Drill Bit Kit

- Variety of sizes: .014" to .126"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes



Part No.	Description	1	10	50
131676	9-piece drill bit kit	\$9.95	\$8.95	\$7.95



## Tool Cases and Bags

All Platt products feature one-year warranty from date of purchase against manufacturing defects.



### Blow Molded Cases

- High-density polyethylene
- Double wall construction
- Color: black

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692887	207	9.5 x 6.0 x 2.7	\$14.99	\$14.92
692895	307	11.0 x 7.0 x 3.4	22.35	21.99
692908	407	12.4 x 8.9 x 5.1	29.25	28.99
692916	507	13.9 x 9.9 x 4.0	37.45	36.99

### Heavy Duty ATA Cases with Wheels and Telescoping Handle

- Color: black
- Inside depth: 5.5"

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
693011	221609AH	19.6 x 13.5 x 9.0	\$266.85	\$254.99
693038	282011AH	27.5 x 19.5 x 11.0	316.65	299.99

### Mechanics Tool Bags

- Water-repellent Cordura fabric
- 8 sewn-in pockets on the inside
- 2 divided snap pouches on the outside
- Outside dimension: 12.0"L x 6.0"W x 6.5"H

Part No.	Product No.	Color	1	10
693100	MTB	Black	\$20.65	\$19.38
693118	MTB-BLU	Blue	20.65	19.38

### Medium Duty ABS Cases

Modern look of heavy duty grained ABS with extruded aluminum frame, deluxe golf grip handle, cast chrome key locks and piano hinge.

- Color: black
- Inside depth: 4.0"

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692959	2207	22.0 x 16.0 x 7.0	\$123.29	\$119.99
692967	2407	24.0 x 18.0 x 7.0	138.19	135.99
692975	2807	28.0 x 20.0 x 7.0	154.45	149.99

### Heavy Duty Polyethylene Cases

The exterior shell is tough, impact-resistant HMW polyethylene. Features heavy-duty aluminum rim with black trim and gasket with cast chrome key locks, and deluxe golf grip handle.

- Color: black
- Inside depth: 4.0"



Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692983	181307	18.5 x 12.5 x 7.0	\$123.75	\$114.99
692991	201407	19.6 x 13.5 x 7.0	151.55	144.99
693003	282007	27.5 x 19.5 x 7.0	197.75	184.99

More Platt Cases Online at [www.Jameco.com](http://www.Jameco.com)

## Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



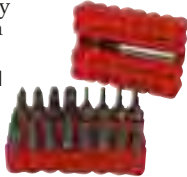
Part No.	Description	Wt. (lbs.)	1	10	25
26702	MS398 drill 	0.8 ...	\$33.55	\$30.18	\$26.82
26711	MS399 stand 	1.8 .....	26.34	23.70	21.06


## 32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

**Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits:

5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver



Part No.	Description	1	10
223829	32-piece security bit set 	\$11.95	\$10.75



## 3-Piece Drill Bit Set

### Drill Bit Set

For drilling component lead wire holes in phenolic or glass epoxy PC boards.

Made of high speed tool steel for long life. Set contains No. 66 bit - 0.033" dia., No. 60 bit - 0.044" dia., 1/16 bit - 0.0625" dia.



Part No.	Description	1	10	50
616569	3-piece drill bit kit .....	\$4.55	\$4.32	\$4.10

## PC Board Drill Bits

- Reconditioned carbon steel bits
- High quality long lasting cutting edge • Shank dia.: .125" **Quantity SAVE**
- Use for drilling holes in glass PC boards



Part No.	Drill Dia.	No.	Application	1	10	100
16619	.021"	75	Misc. ....	\$1.55	\$1.32	<b>(\$ .99)</b>
16580	.040"	59	Plated thru holes ..	1.75	1.49	<b>(1.12)</b>



## Pocket Screwdriver

### Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage




Part No.	Description	1	10	100
127271	Pocket screwdriver .....	\$1.55	\$1.45	\$1.19

## 11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- Awl • Magnetic pick-up



Part No.	Description	1	5
226094	Precision screwdriver 	\$4.49	\$4.29



## Hot Melt Glue Gun & Glue Sticks

The Loctite® Hysol® 050-LITE is a lightweight handheld hot melt applicator which utilizes a finger actuated trigger mechanism to positively grip and advance all Loctite Hysol 1/2" diameter hot melt sticks.



- Fixed precision temperature setting: 392°F (200°C)
- Melt rate output: up to 1lb. / hour
- Adhesive: 1/2" diameter glue sticks
- Voltage: 100/240VAC@50-60Hz (self adjusting)
- Power: 20 to 500 watts (self regulating)
- Size: 8.0"L x 1.3"W x 6.6"H • Weight: 0.8 lbs.




Part No.	Product No.	Description	Price
667577	98029 	Hot Melt glue gun .....	\$38.89

Part No.	Product No.	Description	1	5
667585	83383 	White glue stick .....	\$16.91	\$16.07
667606	83273 	Tan glue stick .....	8.79	8.35

## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W



Part No.	Description	1	10	25
72696	Glue gun 	\$9.95	\$8.46	<b>(\$6.35)</b>
78633	Glue sticks (6/pk) 	3.15	2.84	2.55
176292	Glue sticks (10/pk) 	4.95	4.29	3.79

## 7-Pc Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips




**Includes:** 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips

Part No.	Description	1	5
261999	Screwdriver set 	\$17.95	\$16.15

## 6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T19 x 50mm Torx hex screwdrivers



Part No.	Description	1	5
226106	Precision TORX screwdriver 	\$12.95	<b>(\$9.74)</b>



## 6-Pc Precision Screwdriver Sets

34041 includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers

34041

34059 includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers



Part No.	Description	1	10	50
34041	Slotted set 	\$3.59	\$3.05	<b>(\$2.28)</b>
34059	Phillips set 	3.59	3.05	<b>(2.29)</b>

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

## 7-Pc Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles





### 261850: Metric

5mm, 6mm, 8mm, 9mm, 10mm, 11mm & 13mm

### 261842: SAE

3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"

Part No.	Description	1	5
261850	Metric nut driver set 	\$9.66	\$7.22
261842	SAE nut driver set 	9.89	9.49

## 6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L; 0.12"Dia. x 6.6"L; 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L



Part No.	Description	1	10	50
99451	6-pc. screwdriver set 	\$8.95	\$8.06	\$7.25

## 6-Piece Screwdriver & Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L



Part No.	Description	1	10	50
99565	Screwdriver/pliers 	\$14.95	\$13.40	\$11.90


## Precision 5-Piece Stainless Steel Pliers Set



- Spring return • Insulated handles

### Includes:

One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73121	5-piece set 	0.6 .....	\$18.15	\$16.32	\$14.69

## Xcelite® Needle Nose Pliers



217891 (submini needle nose): Serrated jaws

- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas



217998: Smooth jaws

- General purpose for pick-up and wire forming

Part No.	Prod. No.	Description	1	10
217891	L4 	4" mini needle nose .....	\$14.95	\$13.69
217998	LN54G 	5" thin long nose .....	15.05	13.97

## Half-Round Long Nose Pliers

- Drop forged steel
- Spring return action
- Length: 4.5"
- Heat treated
- Vinyl grips
- Knurled jaws



Part No.	Description	1	10	50	100
177608	Half-round pliers 	\$4.95	\$4.49	\$3.95	\$3.59

## 5.3" Flat and Half-Round Long Nose Pliers

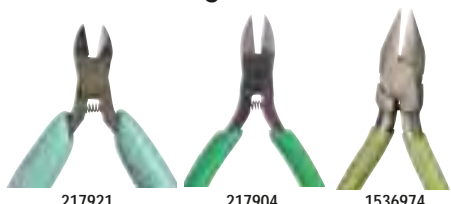
- Stainless steel
- Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose

35474/35491: Knurl jaws  
195531: Smooth jaws



Part No.	Description	1	10	50	100
35474	Flat long nose  ..	\$5.49	\$4.94	\$3.95	\$2.96
195531	Flat long nose  ..	5.75	5.10	4.02	2.93
35491	Half round  ..	5.49	4.94	3.95	2.96

## Xcelite Diagonal Cutters



Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort



Part No.	Prod. No.	Description	1	10
217921	MS54J	4" oval head-flush ..	\$18.79	\$16.94
1536974	S475NJS	4" relieved head-flush ...	14.95	13.68
217904	MS549J	4" tapered head-flush ...	15.09	13.55
217867	MS545J	4" slim line tapered head-flush	14.59	12.99

## Cutting Pliers

### Flush Cut

- Stainless steel
- Side cutting flush cut
- Leaf spring for smooth controlled action



Part No.	Description	1	5
261789	Cutting pliers	\$6.95	\$6.55

## 5" Cutting Pliers

Recommended for cutting copper and soft lead wire. Ideal for precise circuit board work. Spring loaded.



Part No.	Description	1	5
261810	Cutting pliers	\$4.99	\$4.55

## Xcelite Cutters and Pliers



- Spring returns
- 146712: Micro series wire cutter – flush; 6"
- 146739: Diag. wire cutter – semi-flush; 4"
- 146721: Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712	170M	\$5.99	\$5.49	\$4.99	\$4.59
146739	MS54V	12.29	11.99	11.79	11.59
146721	MN7776V	14.99	14.49	14.25	13.99

## Xcelite Shearcutter/Pliers Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	25
152055	S2K	\$15.99	\$14.99	\$13.99

## 4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"



Part No.	Description	1	10	50	100
179902	Wire cutter	\$5.49	\$4.94	\$4.45	\$4.00

## 4.3" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade



Part No.	Description	1	10	50	100
35482	Wire cutter	\$5.59	\$4.99	\$4.55	\$3.99

## 5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Cross Ref. No.	1	10	25
161411	Wire cutter	\$7.49	\$6.74	\$6.07

## molex Hand Tools for Mini-Fit™ Jr.



304928: Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928	63811-1000	Crimp tool .....	\$47.29	\$45.46
304936	11-03-0044	Extraction tool	19.99	18.99

## 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 5.0"L x 3.0"W



Part No.	Product No.	1	10	50	100
159274	HT1091	\$6.69	\$6.02	\$5.42	\$4.87

## 5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty



78992: 10-30 AWG (screw adjustable)  
215889: 10-24 AWG (dial to adjust for wire gauge)

Part No.	Cross Ref. No.	1	10	50	100
78992	HT108	\$3.95	\$4.01	\$3.39	\$2.98
215889	JE-2022C	3.95	3.49	2.95	2.59

## 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

161226: Premium  
• 12-20 AWG stranded;  
10-18 AWG solid  
• Color: yellow

161234: Premium  
• 16-26 AWG stranded;  
14-24 AWG solid  
• Color: red

161218: Standard  
• 16-26 AWG stranded; 14-24 AWG solid • Color: red



Part No.	Prod. No.	Description	1	10
161226	ID45-215	Cushioned grips ..	\$18.39	\$17.50
161234	ID45-216	Cushioned grips .....	17.79	17.06
161218	ID45-121	Non-cushioned grips	14.29	13.60

## 6.6" Wire Stripper

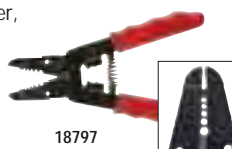
- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



Part No.	Product No.	1	10	50
159291	HT5023	\$10.15	\$9.14	\$8.22

## 7-in-1 Wire-Handling Tool

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



Part No.	Prod. No.	Description	1	10	50
18797	HT1041	10-18AWG ...	\$4.95	\$4.49	\$3.95
127862	HT1042	16-26AWG .....	6.45	5.46	4.09
127871	HT1043	22-30AWG .....	5.49	4.94	4.45

Email us 24/7 at

[NewProducts@Jameco.com](mailto:NewProducts@Jameco.com)

with suggestions for products you'd like to see in future catalogs.

## Automatic Wire Stripper

- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length



Part No.	Description	1	10	25
175098	Strips 8-22 AWG	\$16.95	\$15.26	\$13.73

## Rotary Coax Cable Strippers

## 2 and 3 Blade

## 159119 (3 Blade):

## 2 settings RG58/59/62

- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

159119

## 159185 (2 Blades): 4 settings RG58/59/62/174

- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray

159185

Includes: Hex key wrench for adjusting blade

Part No.	Product No.	1	10	25
159119	HT312B (3 blade)	\$13.95	\$11.86	\$8.89
159185	HT332D (2 blade)	13.95	12.56	11.30

## Crimp/Cut/Strip Tool

## For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.

Includes: Cut and strip blade



Part No.	Cross Ref. No.	1	10
174684	TTK071	\$26.95	\$24.26

## Telemaster Modular Connector Crimp/Cut/Strip Tool

## For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.

Includes: Cut and strip blade



Part No.	Product No.	1	10
161091	ID30-496	\$47.89	\$43.55

## Ratchet Crimp Tool

## For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

Includes: Cut and strip blade



Part No.	Cross Ref. No.	1	10
174676	TTK070	\$39.95	\$35.95

## Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147	HT200	\$54.95	\$49.49	\$44.55

## Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.



Includes: 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C

Part No.	Product No.	1	10	25
73496	HT2000B	\$82.45	\$70.08	\$64.98

## Metal Modular Connector Crimping Tool

- Cable stripper and wire cutter
- Size: 8.0"L
- Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)



Part No.	Description	1	10	25
114527	RJ11/RJ45	\$24.95	\$22.49	\$20.25

## Ratcheted BNC Crimping Tool

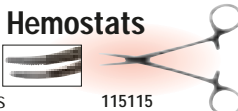
- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114535	HT-336G	\$25.15	\$23.32	\$20.99

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

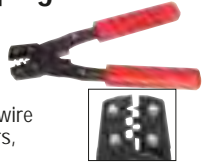


Part No.	Cross Ref. No.	Description	1	10	50
115107	HEMO1	Straight	\$3.49	\$3.14	\$2.83
115115	HEMO2	Curved	3.95	3.56	3.20

## Non-Insulated Terminal D-Sub Crimping Tool

## 14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99443	HT202A	\$9.49	\$8.55	\$7.69	\$6.95

## D-Sub Crimping Tool

## 20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377 & 43369, pg 138 & 100766, pg 155
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159266	HT213	\$10.95	\$9.89	\$8.89

## Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required
- Size: 7.8"L



Part No.	Prod. No.	Description	1	10	25
18810	HT204	Nibbling tool	\$8.05	\$7.23	\$6.50
29331	HT204B	Replacement bit	4.49	4.04	3.64

## Ratcheted Modular Connector Crimping Tool

- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.



Part No.	Description	1	10	25
159312	RJ45/11/12	\$21.95	\$19.95	\$17.95

## 9-in-1 Pocket Multi-Tool

- Bottle opener
- Flashlight
- Nail pick
- 2 handyman/long-nose pliers
- Phillips screwdriver
- Metal file
- Knife blade
- Wire cutter
- Folded: 2.75"L

**SALE**



Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
227264	9-in-1 pocket multi-tool	\$2.59	\$2.35

See pages 127 & 128 for more modular connectors



## Connector Compression

Designed to compress ferrules of "F" /BNC/ RCA connectors. Black oxide steel frame with interchangeable die sockets, ratchet mechanism with manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.



Part No.	Description	1	5
261761	Compression multi-tool ...	\$34.95	\$31.45

## "F" Connector Compression Tool

Compresses RG-6 and RG-59 Snap-N-Seal type connectors.

• Length: 5"

⊕ Blue Part No. = Limited Quantity Available



Part No.	Description	1	5
261753	Compression tool ⊕	\$29.99	\$28.99

## 25-Piece Hex Key Set

- 12-piece SAE long arm with sizes from 1/16" to 3/8"
- 13-piece Metric short arm with sizes from 1.5mm to 1cm



Part No.	Description	1	5
261825	Hex key set ⊕	\$6.95	\$6.59

## Automatic Center-Punch Tool

Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body • Size: 5.0"L x 0.5"Dia.



Part No.	Description	1	10	50
160282	Center punch tool ⊕	\$6.89	\$6.25	\$5.63

## T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10	25
151750	T-handle reamer	\$7.95	\$7.49	\$6.95

## Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W
- One-year warranty
- Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

⊕ Blue Part No. = Limited Quantity Available



Part No.	Description	1	10
88268	Vacuum pick & place kit ⊕	\$34.29	\$30.84

## 4-Piece Adjustable Wrench Set

Heavy-duty carbon steel wrenches with black industrial finish. Constructed with rugged I-beam handle and four-sided jaw design for better fit and strength.

- Length x jaw opening: 12" x 1 3/16"; 10" x 1 1/16"; 8" x 1"; 6" x 1 1/16"



Part No.	Description	1	5
261711	Adjustable wrench set	\$11.05	\$9.90

## 2-Piece Tweezer Set

- PVC insulated handles
- Serrated tips for parts handling
- Bent tip and straight rounded tip (wide tip)
- Length: 5.8"



⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	25
253180	Tweezer set ⊕	\$3.09	\$2.78	\$2.51

## 4-Piece Steel Tweezer Set

- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places



Part No.	Description	1	10	50
10735	4-piece tweezer set ⊕	\$7.95	\$6.95	\$5.95

## Tweezers

- 253163: Straight, round tapered, wide-point tip
- 253092: Curved fine-point tip
- 252912: Straight fine-point tip
- 253112: Fine-point tip, insulated, anti-static



Part No.	Length	Photo	1	10	25
253163	4.5"	1	\$0.89	\$0.79	\$0.73
253092	4.6" R	2	2.25	1.99	1.79
252912	4.75" R	3	2.25	1.99	1.79
253112	4.75" ⊕	4	2.25	1.99	1.79

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H
- Includes: 13 types of blades



Part No.	Description	1	10	25
72768	13 blade knife set ⊕	\$10.95	\$9.86	\$8.87

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions.  
Just call us! 1-800-831-4242

## Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 122 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long



Part No.	Cross Ref. No.	1	10	25
34585	HSM30 (Modified) ⊕	\$59.49	\$53.54	\$47.58
236785	HSR30 (Regular) ⊕	30.55	25.97	19.47

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.



- Knurled handle for easy grip
- 5" long



Part No.	Description	1	10	25
242801	Tool (regular)	\$23.94	\$22.19	\$19.14
242798	Tool (modified)	21.95	19.95	17.15
242835	Replace stripper assembly	5.49	4.67	3.64

## Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade



175071: Tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H

324013: Tool with blade

- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H

175089: Punch-down blade 110-type terminals

Part No.	Description	1	10
175071	Tool with 66 blade ⊕	\$35.99	\$32.40
324013	Tool with 110 blade ⊕	44.87	33.65
324021	Punch-down blade 66	14.95	13.49
175089	Punch-down blade 110 ⊕	14.95	13.49

## 4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638	4-piece tweezer set ⊕	\$11.95	\$10.95	\$9.95

## PLCC and DIP IC Extractors

- Size: 4.0"L x 2.0"W (both)



Part No.	Product No.	Description	1	10	100
16766	HT103B ⊕	PLCC ...	\$3.95	\$3.55	\$3.19
16838	HT103A ⊕	DIP	1.49	1.25	1.09

## General Purpose Illuminated 3X Magnifier

- Great for magnifying fine print
- 75mm diameter lens
- Light requires 2 AA batteries
- Size: 7.5"L x 3.75"Dia.



Part No.	Description	1	10	25
149542	Illuminated magnifier .....	\$3.09	\$2.81	\$2.55

## IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H

**Includes:** Ground terminal



Part No.	Description	1	10	100
99363	IC straightener  .....	\$7.69	\$6.94	\$6.24

## Digital Display Caliper

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty



**Includes:** Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 246)

Part No.	Description	1	10	25
127482	Digital disp. caliper  .....	\$69.25	\$66.28	\$64.62



## Metal Dial Calipers

### Choose Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal
- Color: silver



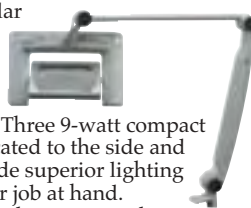
**Includes:** Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134	Metric (.02 mm)  .....	\$32.65	\$29.39	\$26.44
116126	Inches (.001 inch)  .....	29.95	25.46	19.10
684449	Metric/Inches .....	43.75	39.35	35.41

## 3X, 3-Bulb Magnifying Lamp

Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles. Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.



Part No.	Description	1	10	25
217517	Adj. magnifying lamp ....	\$79.95	\$74.95	\$69.95

## 3X Magnifying Lamps

- 45" extension arm
- Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz
- 3-diopter lens
- Weight: 7.3 lbs.



Part No.	Description	1	10	25
100829	Black lamp .....	\$59.95	\$53.95	\$49.95
149981	White lamp .....	59.95	53.95	49.95

## Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens
- Weight: 2.9 lbs.



Part No.	Description	1	10	25
22710	Magnifying lamp .....	\$26.49	\$25.19	\$23.89

## Precision 5 Diopter Magnifying Lamp

The arm extends to 40", is adjustable to any direction or angle, and has a 5 diopter. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

**Includes:** 22W circuline fluorescent bulb



Part No.	Description	1	10	25
197456	Magnifying lamp  .....	\$109.95	\$98.95	\$88.95

# Anti-Static Equipment

## Anti-Static Plastic DIP IC Storage Tubes and Rubber Rail Stops

### 29516:

Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits.

- Length: 23.75"

### 29583:

Rubber stops used to plug plastic rail ends

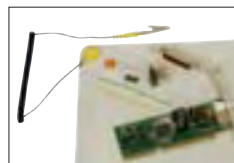





\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Description	1	10	100
29516	RIC20	Thin rail .....	\$ .49	\$ .44	\$ .40
29583	RRS	Rubber stop .... *	.096	.072	

## Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



Part No.	Dimensions	Wt. (lbs.)	1	10	100
10576	11.3" x 22" 	0.7 ....	\$10.25	\$9.23	\$8.30
10584	19.5" x 23.5" 	1.1 ....	14.95	13.47	12.14
236541	23.5" x 27.5" 	1.4 ....	27.95	25.19	22.61

## Protective Coiled Grounding Wrist Strap

- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black





**Includes:** 1MΩ resistor for added safety

Part No.	Description	1	10	100
34552	Anti-static strap  .....	\$6.49	\$5.85	\$5.29

## Conductive Anti-Static Foam and Bags

### Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam. **13864:** 24.0"L x 12.0"W x 0.25"H

Part No.	Description	1	5
13864	Anti-static foam  .....	\$9.29	\$8.35
78650	8" x 10" anti-static bags  .....	.69	.59

## Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L



Part No.	Description	1	10	100
100328	Heel strap  .....	\$5.99	\$5.43	\$4.96

# Committed to You

We're committed to providing you with the best service in the industry.

# Soldering/Desoldering Stations & Accessories

Color Code Legend			
New	Sale	Lower\$	QtySave



## 60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at  $\pm 6^{\circ}\text{F}$
- Electronic temperature control from  $392^{\circ}\text{F}$  to  $878^{\circ}\text{F}$
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115 – below)

Part No.	Product No.	Description	1	10	25
236101	XY9-60D/ESD	Digital soldering station – ESD safe	\$109.95	\$99.95	\$89.95
219627	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	74.95	67.46	60.71
168583	46-060102	Tip .078" for P/N 168401	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 168401	12.95	11.69	10.49
236460	78-744615	Replacement sponge for both stations	2.99	2.69	2.49



## 60-Watt Desoldering & Soldering Station

**Special 5% Bundle Savings**  
Complete ISO 9000 digital station – P/N 236101 & 125508  
Sold separately \$409.90  
Combined: P/N 207263 **\$388.95**



- Simple fine tune feature to select within  $300\text{--}850^{\circ}\text{F}$  range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes
- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

- 207271 For use w/ models 136, 136ESD, 137ESD & 988

Part No.	Product No.	Description	1	10	25
125508	968	Desoldering station	\$299.95	\$269.99	\$242.99
207271	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583	46-060102	Tip .078" for P/N 207271	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 207271	12.95	11.69	10.49
236460	78-744615	Replacement sponge	2.99	2.69	2.49



## 45-Watt Analog Display Soldering Station

**Grounded Soldering Tip**

- $500^{\circ}\text{F}$  to  $850^{\circ}\text{F}$  • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100M $\Omega$
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.



Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

Part No.	Product No.	Description	1	10	25
229673	XYT379-C	45-Watt soldering station	\$59.95	\$53.95	\$48.95
156814	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
156822	XYB04	Conical chisel 1/16" tip	4.95	4.21	3.16
134631	SP715	Replacement sponge	2.99	2.69	2.49

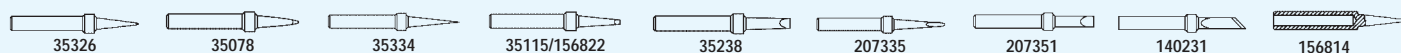
### Replacement Sponges for Legacy Models



















Part No.	Product No.	For Station	1	10	100
134640	SP815	168-3C	\$2.99	\$2.55	\$1.95
134631	SP715	XY-60D, XY-379 & XYT379-C	2.99	2.69	2.49

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

## Tips & Replacement Parts for XYTronic Soldering and Desoldering Products



			For XYTronic Model Numbers (*Legacy Models)										Pricing				
			239VL	136ESD	200GX 168*	200PG	379	AE5D D/ESD	XY90W D/ESD	960*	968	999SD*	J5258*	168-3C	1	10	25
Part No.	Cross Ref. No.	Description															
35326	XY401	 Soldering tip - conical bevel 1/32"		✓		✓	✓		✓	✓			✓	✓	\$4.49	\$3.95	\$3.65
35078	XY402	 Soldering tip - semi-chisel 1/32"		✓		✓	✓		✓	✓			✓	✓	4.49	3.95	3.65
35334	XY403	 Soldering tip - conical sharp 1/64"		✓		✓	✓		✓	✓			✓	✓	4.49	3.95	3.65
35115	XY404	 Soldering tip - conical chisel 1/16"		✓		✓	✓		✓	✓			✓	✓	4.49	3.95	3.65
35238	XY405	 Soldering tip - semi-chisel wide 1/8"		✓		✓	✓		✓	✓			✓	✓	4.49	3.95	3.65
207335	XY406	 Soldering tip - long conical chisel 3/64"		✓		✓	✓		✓	✓			✓	✓	2.95	2.69	2.39
207351	XY410	 Soldering tip - chisel 3/16"		✓		✓	✓		✓	✓			✓	✓	2.95	2.69	2.39
140231	XY430	 Soldering tip - SMD flat pack 7/32"		✓		✓	✓		✓	✓			✓	✓	8.95	7.95	7.25
156814	XYB01	 Soldering tip - sharp conical chisel 1/32"			✓			✓							4.95	4.49	3.95
207327	XYB03	 Soldering tip - conical sharp 1/64"			✓			✓							4.95	4.49	3.95
156822	XYB04	 Soldering tip - conical chisel 1/16"			✓			✓							4.95	4.21	3.16
207298	XYB05	 Soldering tip - semi-wide chisel 1/8"			✓			✓							4.95	4.49	3.95
207319	XYB30	 Soldering tip - wedge blade 3/16"			✓			✓							8.95	7.65	5.75
35297	XY37	 Heating element - (nichrome)				✓	✓		✓				✓	✓	20.95	18.95	16.95
35318	XY48	 Assembly - 60W w/ nichrome heater				✓	✓		✓				✓	✓	30.95	27.95	24.95
127634	XYD10	 Desoldering tip - 1.0mm (.0394")								✓	✓	✓	✓		8.95	7.95	7.25
127642	XYD12	 Desoldering tip - 1.2mm (.0472")								✓	✓	✓	✓		8.95	7.95	7.25
127651	XYD15	 Desoldering tip - 1.5mm (.0586")								✓	✓	✓	✓		9.05	8.03	7.32



RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

**Includes:** ST3 1/8" screwdriver tip and manual

Part No.	Prod. No.	Description	1	10
146595	WLC100	Soldering station	\$46.99	\$44.99

## Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

Part No.	Prod. No.	Description	1	10
146608				
146616				
146624				
146608	ST1	Screwdriver tip 1/16"	\$5.45	\$4.86
146616	ST3	Screwdriver tip 1/8"	5.45	4.86
192145	ST6	Screwdriver tip .031"	4.29	4.19
146624	ST7	Conical tip 1/32"	4.99	4.26

## Weller® 42-Watt Controlled-Output Soldering Station

- Transformer powered soldering station complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

**Includes:** Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552	WTCP	Solder station	\$138.95	\$134.95
192161	TC201T	Replac. iron	74.65	71.95
192170	PTA6	.062" screwdriver tip (600°F)	5.75	5.46
192188	PTA7	.062" screwdriver tip (700°F)	5.99	5.47
192196	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

## Weller® 60-Watt Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.

**Includes:** One 1/16" tip (P/N 35115, pg 288)

236460: Replacement sponge

Part No.	Product No.	1	10	25
236110	168-3C	\$89.95	\$79.95	\$72.95
236460	78-744615	2.99	2.69	2.49

## 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout 233533
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

**Includes:** PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461	WES51	Analog	\$120.49	\$116.15
233533	WESD51	Digital	158.95	150.99

## Weller® Soldering Tips

Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Additional tips can be special ordered

Part No.	Prod. No.	Description	1	10
16774	ETA	Screwdriver 1/16"	\$6.95	\$6.25
16782	ETJ	Long screwdriver 1/32"	6.95	6.25
16803	ETR	Narrow screwdriver 1/16"	5.95	5.65
16811	ETS	Long conical 1/64"	5.95	5.65

## Weller® SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F • 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.

**Includes:** 0.095" tip

Part No.	Description	1	10	25
168410	Tweezer iron	\$59.95	\$53.95	\$48.95
168583	Tip .078"	11.95	10.79	9.69
168591	Tip .590"	12.95	11.69	10.49



## ESD-Safe, Lead-Free Soldering Station

The ideal tool for service and repair technicians as well as production line soldering operators.

- Specifically designed for RoHS-compliant soldering
- ±3°C temp. stability • 100W, 115/230VAC 50/60Hz
- Temperature adjustable 0-45°C (0-85°F)
- 24VAC Hi-recovery nichrome heating
- Auto power down idle circuitry, 15-min non-operation
- 45 second ramp time to max temp setting
- Full digital LED readout in both °C and °F
- Easy external calibration port
- Slimline ergonomic pencil design for maximum dexterity and comfort
- Revolutionary "Zero Voltage" electronic switching design protects voltage and current-sensitive components against damaging current and transient voltage spikes
- Pb-free (lead-free) soldering application qualified
- Size: 6.1"W x 6"D x 4"H • Weight: 8.0 lbs.

Part No.	Description	1	5
667551	LF-1000 soldering station	\$169.95	\$144.46

## Weller® Soldering Tips

Replacement Tips for WSL

Part No.	Prod. No.	Description	1	5
233576				
233550				
233541				
233576	NT1X	0.8mm bent round	\$10.85	\$10.17
233550	NTA	0.6mm chisel	8.95	8.43
233541	NT1	0.25mm micro	9.15	8.47



## SMD Rework Station

- High-performance, inexpensive, versatile
- Adjustable temp.: 250-450°C (482-842°F)
- Long-life ceramic heating element
- Rapid heat-up and recovery
- Thermocouple sensor for stable temperature • Size: 7.4"L x 5.0"W x 3.3"H
- 40W station, 25W ceramic element • Weight: 2.6 lbs

**Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629	Rework station	\$89.95	\$80.99	\$72.85
168583	.078" tip	11.95	10.79	9.69
168591	.590" tip	12.95	11.69	10.49



## 3-in-1 Lab Center

Your space saving lab solution! Everything you need in one unit.

**Digital Multimeter:**

- 3-1/2 backlit LCD
- DC voltage ranges: 200mV to 600V
- AC voltage ranges: 200V to 600V
- Resistance ranges: 200Ω to 2MΩ
- Automatic polarity indication
- Data hold function and buzzer
- DC current ranges: 200μA to 10A
- Diode, transistor and continuity tester

**Regulated Power Supply:**

- Selectable output voltages: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- LED overload and power indicators

**Soldering Station:**

- 48W ceramic heating element with temperature sensor
- Temperature range: 150°C to 450°C

**Includes:** Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

Part No.	Product No.	Description	1	5
695025	LAB1	3-1/2 digital multimeter, regulated power supply and soldering station	\$172.95	\$163.97

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## 16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572:  
• Length: 7.5"

- 36329:  
• Black anodized steel base – 5.3"L x 3.3"W  
• See below for replacement sponge (P/N 134631)  
• Fits most soldering irons .85" diameter

Includes: Sponge

Part No.	Description	1	10	100
116572	Soldering iron	\$16.95	\$15.29	\$13.75
36329	Soldering stand	4.95	4.46	4.01
134631	Sponge (for P/N 36329)	2.99	2.69	2.49



## Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • 25-watt power consumption
- Interchangeable tips (pg 288) • UL listed
- Length: 8.0" • One-year warranty

Includes: 1.6mm conical tip

Part No.	Description	1	10	25
129040	25W solder. iron	\$13.15	\$12.71	\$11.41

## Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 289)

Part No.	Product No.	Description	1	10
170587	WP25	25W solder iron	\$35.65	\$34.43
192102	WP35	35W solder iron	44.85	43.34
192153	PH25	Solder iron stand	18.19	17.79

## Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- 120VAC @ 60Hz input
- Length: 6"
- Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Prod. No.	Description	1	5
192081	W100PG	Solder iron	\$70.79	\$66.57
192090	CT6F7	.375" scrwdrv tip	8.59	7.75

## Vacuum Pen Tools

- ESD safe body
- Picks up components with weight of 1.1 lbs. or less

Part No.	Description	1	10	25
207239	HandiVac tool	\$19.99	\$16.99	\$12.74
207247	Pen vac tool	37.95	34.25	30.49

## Special! Low-Cost Irons

### 30-Watt Soldering Iron and Stand

- UL approved
- Ideal for precision work
- 1/4" removable tip
- Length: 8.3"
- 110-120VAC

Part No.	Description	1	10	100
102462	30W soldering iron	\$6.25	\$5.61	\$5.05
116020	Replacement tips (2)	2.55	2.16	1.62
36329	Soldering stand	4.95	4.46	4.01

### 35-Watt Soldering Iron

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC

Part No.	Description	1	10	100
208987	35W soldering iron	\$3.49	\$3.04	\$2.77
208995	Replacement tips (2)	.99	.84	.63
209075	Solder roll, 8mm (.031")	27.35	24.61	19.68



## Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

- 25W, 40W & 60W • Length: 9"
- 120VAC; 6' cord with 3-prong plug

Tips for 224611/224602:

226000 chisel; 226018 conical

Tips for 195223:

226026 chisel; 226034 conical

Part No.	Product No.	1	10	25
224611	200PHG-25W	\$7.95	\$7.15	\$6.45
224602	200PHG-40W	8.95	8.06	7.25
195223	200PHG-60W	13.95	12.49	12.11
226000	44-240517 tip	.95	.81	.61
226018	44-240513 tip	.95	.85	.79
226026	44-240617 tip	1.95	1.79	1.59
226034	44-240603 tip	1.95	1.79	1.59

## Weller® Cordless Soldering Iron Kit

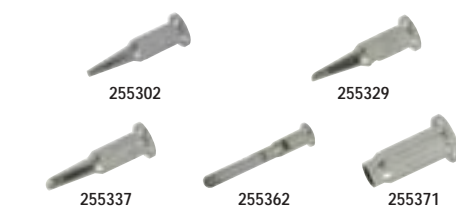
- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No.	Description	1	5
152207	PSI-100K	Tool kit	\$81.99	\$78.79

## Soldering Tips

### Replacement Tips for Pro-120 Butane Powered Soldering Iron



Part No.	Cross Ref. No.	Description	1	5
255273	PS-1	Tip, 1/32" flat	\$8.49	\$7.99
255302	PS-3	Tip, 1/8" flat	8.99	8.75
255329	PS-5	Tip, 1/32" chisel	8.99	6.74
255337	PS-6	Tip, 3/32" chisel	8.99	8.75
255362	PS-9	Tip, hot knife	9.95	9.68
255371	PS-10	Tip, hot blower	8.99	8.75



## Butane Powered Cordless Soldering Iron

- Cordless, simple operation
- Built-in on-off switch
- Length: 8.5"
- Can be used as a torch or hot blower
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load

Part No.	Prod. No.	Description	1	10
645520	GASIRON2	Soldering iron	\$29.55	\$28.15
645554	GASIRON2/SPB	Replacement tip	1.79	1.69

## WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

### IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron • Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, NiCd battery pack, and tips

Part No.	Description	1	10
132783	Power Pro cordless iron	\$67.29	\$65.79



www.Jameco.com

Our enhanced website offers thousands of new and additional products. Find products quickly and order them easily.

## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available











19255:

- UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

19166: Size: 7.8"L x 0.8"Dia.

305218/305226: Size: 13"L x 1.0"Dia.

Part No.	Description	1	10
19255	Electric desolder pump 	\$26.95	\$23.95
19166	Manual desolder pump 	4.95	4.49
305218	Man. desolder pump (ESD safe) 	18.95	17.99
305226	Manual desolder pump 	14.75	13.99
19262	1 tip for 19255 	4.95	4.49
22091	2 tips for 19166 	4.49	3.95
307774	1 tip for 305218 	5.46	5.02
307782	1 tip for 305226 	2.39	2.27

## Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6" • Wt.: 2.0 lbs.



Part No.	Description	1	10	100
169551	Spool & iron stand	\$16.95	\$15.29	\$13.75

## Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.



Part No.	Description	1	10	100
141761	Solder spool stand 	\$8.95	\$7.95	\$6.95

## Soldering Kit

A perfect soldering tool kit for technicians and maintenance professionals doing solder work in the field. This kit includes:

100W soldering gun with extra tip, 30W soldering iron, manual desoldering pump, mini third-hand board/component holder, lead solder, and soldering aid tool.

- Size: 13.8"L x 11"W x 3"H • Weight: 4.0 lbs.



Part No.	Description	Price
684596	GSR-600A	\$32.55

## Modern Solder Technology For Competitive Electronics Manufacturing Book

**McGraw-Hill**

This book covers all relevant technologies for the application of solder in electronic and microelectronic packaging and assembly. Includes a proper level of underlying fundamentals that are important to practical applications. (622 pages, 1996)

- Size: 9.2" x 6.2"



Part No.	Description	Price
677951	Modern Solder Technology Book	\$85.45

## Solder Bars





- Used with solder pots
- Size: 13"L x 0.9"Dia.

176057: 60/40 170465: 63/37

668406: 99.3% tin, 0.7% copper

668414: 96.3% tin, 3.2% silver, 0.5% copper

668422: 96.5% tin, 3.5% gold



Part No.	Description	Wt. (lbs.)	1	10	25
176057	60/40	1.1	\$8.49	\$7.65	\$6.89
170465	63/37 	1.8	11.95	11.33	10.77
668406	99.3/7 	2.2	36.49	31.95	30.11
668414	96.3/3.2/5 	2.2	81.47	74.03	66.64
668422	96.5/3.5 	2.2	73.99	67.24	60.52



## 300-Watt Solder Pots

*Temperature Regulated Between 420°C and 450°C*

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or 170465, above
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty

Part No.	Description	1	10	25
160304	300W solder pot 	\$71.39	\$67.85	\$64.46
668043	300W solder pot 	146.95	139.59	132.65





## 600-Watt Solder Pots

*Temperature Adjustable*

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, above
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.


**Includes:** Skimmer and removable dross tray

Part No.	Description	1	10
172276	600W solder pot 	\$227.94	\$175.50
668051	600W solder pot 	314.99	309.99



## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, above
- 3 conductor pigtail power cord: 5' long
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty

Part No.	Description	1	5
149876	2000 watt solder pot 	\$399.95	\$359.95

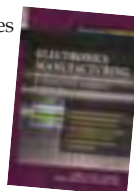


## Electronics Manufacturing Book

**McGraw-Hill**

This comprehensive guide provides cutting-edge information on lead-free, halogen-free and conductive-adhesive technologies and their application to low-cost, high-density, reliable, and green products. Essential for professionals who wish to master lead-free, halogen-free, and conductive-adhesive problem solving methods. (592 pages, 2003)

- Size: 9.2" x 6.3"



Part No.	Description	Price
677994	Electronics Manufacturing Book	\$91.95

## Fume Extractor

Designed to remove solder flux fumes and other work place fumes from the operator's breathing zone. Uses activated-carbon filter and a high efficiency fan. Air is filtered, cleaned, and returned to the workplace.

- Input voltage: 110 – 120V
- Power: 20W • Arm length: 29"
- Fan specifications: 50dB S/N ratio: 87cfm
- Size: 8.3"H x 8.3"W x 5.3"D • Weight: 3.3 lbs.

Part No.	Product No.	1	10
667420	GS-630A	\$54.09	\$51.25
672579	GS-628-08 (carbon filter 3pk.)	15.99	14.39



## Weller® Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.

- Voltage: 120VAC • Sound level: 45-50dB
- Air consumption: 87-107CFM • UL/CUL listed
- Power consumption: 20W • ESD safe
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H • Weight: 4.2 lbs.

Part No.	Product No.	1	5
684810	WSA350	\$47.95	\$44.95
684828	WSA350F (carbon filter)	7.15	6.79





## Fume Extractor

**Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan**

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watt
- Aerodynamic hood design for effective removal of solder fumes
- Black anodized aluminum case
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty

**Includes:** Detachable power cord

Part No.	Description	1	10	25
120150	Fume extractor 	\$58.95	\$52.95	\$47.79
127183	Replace. filters (2/pk) 	12.95	11.66	10.49





## Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (Soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.

**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169	456DLX 	\$89.95	\$86.29



 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



156777

73584

73584: Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10	50
156777	Tip cleaner & stand	\$4.95	\$4.49	\$4.05
160004	Metal wool replacement	2.79	2.49	2.29
73584	Rosin paste flux (2 oz.)	2.95	2.44	2.19

## Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!



Safe and Effective!

- 0.7 oz. tin with self adhesive pad

Part No.	Description	1	10	50
132986	Lead-free tip tinner	\$4.95	\$4.59	\$4.19



## 5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.

- Length: 5'



139951



124126

Part No.	Description	1	10	100
139951	.030"W desolder braid	\$2.99	\$2.69	\$2.29
124126	.055"W desolder braid	3.05	2.90	2.74
124118	.075"W desolder braid	2.95	2.86	2.69
263708	.098"W desolder braid	2.99	2.75	2.59

## 5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux



41100

Part No.	Description	1	10	100
41082	.079"W braid (5')	\$1.69	\$1.46	\$1.09
41100	.098"W braid (5')	1.59	1.32	1.18
153461	.120"W braid (5')	1.59	1.39	1.25

More ChipQuick® Soldering Products available online at [www.Jameco.com](http://www.Jameco.com)



## Rosin Core Solder Rolls and Pocket Packs



73576



32117



170457



141778

Part No.	Manufacturer	% Composition				Dia. (in.)	Wt. (lbs.)	Pricing			
		Tin	Lead	Silver	Copper			1	10	50	100
668078	—	99.3	—	—	0.7	0.04	0.6	\$10.45	\$8.64	\$8.20	\$7.79
668262	—	96.3	—	3.2	0.5	0.04	0.6	17.69	14.15	13.58	13.00
668271	—	96.5	—	3.5	—	0.04	0.6	16.95	14.40	14.20	13.97
668289	—	99.3	—	—	0.7	0.04	1.1	19.39	15.69	14.91	14.16
668297	—	96.3	—	3.2	0.5	0.04	1.1	29.95	27.50	26.75	25.99
668318	—	96.5	—	3.5	—	0.04	1.1	27.79	27.10	26.65	26.19
668326	—	99.3	—	—	0.7	0.04	2.2	38.75	31.39	29.82	28.33
668334	—	96.3	—	3.2	0.5	0.04	2.2	57.19	46.66	44.33	42.78
668342	—	96.5	—	3.5	—	0.04	2.2	65.45	62.18	59.07	56.12
141794	Super	60	40	0	—	0.031	0.55	6.99	6.49	5.99	5.49
141786	Super	60	40	0	—	0.031	1.10	8.99	7.99	7.49	6.99
141778	Super	60	40	0	—	0.031	2.20	15.49	14.99	14.49	13.99
170457	Golden	60	40	0	—	0.031	0.06	1.39	1.25	1.05	.99
73576	Kester (pak)	60	40	0	—	0.031	0.04	2.79	2.54	2.26	2.03
32117	Kester	60	40	0	—	0.031	1.00	13.55	12.25	11.05	9.95
73605	Kester (pak)	62	36	2	—	0.020	0.02	1.50	1.19	1.17	1.16
112344	Kester	63	37	0	—	0.020	1.00	19.49	18.50	18.27	18.14
151474	Kester*	63	37	0	—	0.031	1.00	18.39	16.55	14.89	13.39

\* Blue Part No. = Limited Quantity Available

\* Organic core



## ProWick® Desoldering Braids

## Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.

- 263581 with bobbin • Length: 5'



263695

Part No.	Product No.	1	10	100
263695	1803-5F (0.075"W)	\$2.49	\$2.29	\$1.99
263599	1804-5F (0.098"W)	2.87	2.70	2.45
263581	1811-5F (0.098"W)	2.99	2.79	2.49

## Angled Bottle

An 8 oz. squeeze bottle made of polyethylene plastic that is ESD safe. Nozzle is angled making it easier for applications in tight places.



Part No.	Description	1	5
667471	Angled bottle	\$7.45	\$7.08

## Flux Dispensing Bottle with Capillary Needles

An 8 oz. squeeze bottle made of polyethylene plastic that is ESD safe. Comes with capillary needles in 0.01" and 0.02" diameters, adapter for needles, squirt nozzle and cover.



Part No.	Product No.	1	10
667489	RD-7372A	\$6.79	\$6.45



## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Description	1	10	50
158131	Pump bottle	\$9.95	\$8.95	\$7.95

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Mfr. Part No.	1	10	25
159126	HT156	\$3.05	\$2.71	\$2.45

## 7-Piece Soldering Aid Kit



Includes: Formatting soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100503	Soldering kit	\$5.95	\$5.35	\$4.82

## Heat Sink Compounds

Thermally loaded silicone-based grease that improves transfer of energy across the metal-to-metal interface between transistor or rectifier and heat sink.

- Color: opaque white



167249



236823

Part No.	Mfr. Part No.	1	10	100
167249	THM250 (2 oz.)	\$9.95	\$8.96	\$8.06
236823	54114 (1 oz.)	4.95	4.21	3.16

## Heat Sink Compound 4-oz. Tube

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.



Part No.	Product No.	1	10
169252	1978DP	\$19.09	\$18.22



## Heatsink Compounds

### Silicone (Z9)

Industry standard zinc oxide-filled silicone heatsink grease for most applications. Will not soften at elevated temperatures, dry out or harden. Meets MIL SPEC C-47113



615321

Part No.	Prod. No.	Description	1	10	100
615304	10-8106	1 lb. can .....	\$29.05	\$27.03	\$23.71
615312	10-8108	6.5 gram tube ..	2.29	2.13	1.87
615321	10-8109	1 fl. oz. tube .....	6.35	5.89	5.17

### Type 44 Non-Silicone

Compounded with 100% synthetic base stocks. Features excellent heat transfer, efficiency, thermal stability, high flow rate, no separation, bleed or migration typical of silicone-based greases. MIL-C-47113 type 2



615339

Part No.	Prod. No.	Description	1	10	100
615339	10-8118	1/2 oz. jar .....	\$7.85	\$7.27	\$6.37
615347	10-8120	1 fl. oz. tube .....	8.49	7.95	7.42
615355	10-8126	1 lb. jar .....	40.29	37.51	32.89

## Implementing Lead-Free Electronics Book

### McGraw-Hill

This book provides timely information on the choices and trade-offs facing manufacturers converting to lead-free manufacturing. This book is laid out as a quick guide, providing successful examples in conjunction with the basic principles of the implementation and production of lead-free electronics on a global basis. (473 pages, 2005)



• Size: 9.3" x 6.2"

Part No.	Description	Price
677986	Implementing Lead-Free Electronics .....	\$89.45

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 314.

See pages 280 - 287 for more tools.



## PANA VISE Vacuum Vise

- Patented "split ball" feature tilts/turns/rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Product No.	1	10
27131	M381 	\$55.95	\$53.25

### Vacuum Vise Quantity SAVE

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty




Part No.	Cross Ref. No.	1	5
262115	GV-300 	\$47.19	\$35.39

## PANA VISE PV Jr. Vise

- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty



Part No.	Description	1	10
134439	Jr. vise w/ mountable base 	\$23.75	\$23.16

## Clamp Vise

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W
- Weight: 2.1 lbs.




Part No.	Description	1	10
127167	Clamp vise 	\$20.79	\$19.71

## Third Hand

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: 0.7 lbs.



681002

Part No.	Description	1	10	50
26690	Third hand 	\$5.95	\$5.35	\$4.79
681002	Third hand .....	8.75	7.89	7.15

## PANA VISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Description	1	5	10
27060	Electronic center 	\$74.95	\$71.25	\$67.95

## PANA VISE Multi-Purpose Work Center

- One of the most versatile combinations, perfect for home or hobby needs
- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows the jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Patented single load control knob and split-ball feature firmly lock the head into place
- Base has three 1/4" countersunk mounting holes
- Part tray base contains six integral parts wells with rounded and sloped walls for easy parts removal
- Overall base diameter is 8.5"




Part No.	Product No.	1	5
684852	350 	\$82.99	\$74.95

## PANA VISE Rapid Assembly Circuit Board Holder

- Features 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds and component insertion
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently and may be positioned adjacent to each other
- 10" high (from base to top of vertical shaft)
- Stable weighted base
- Weight: 6.4 lbs.



Part No.	Product No.	1	5
684844	333 	\$69.95	\$63.95

## PANA VISE Vacuum Base Vise

- Lever locks vacuum pad into place on any flat, smooth, non-porous surface
- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment knobs control jaw pressure
- Arm movement is 140°; positive indents control movement to prevent "flopping"
- Jaw size: 2"H x 1"W
- Base diameter: 3.4"
- Weight: 0.8 lbs.
- Overall height: 7.5"H

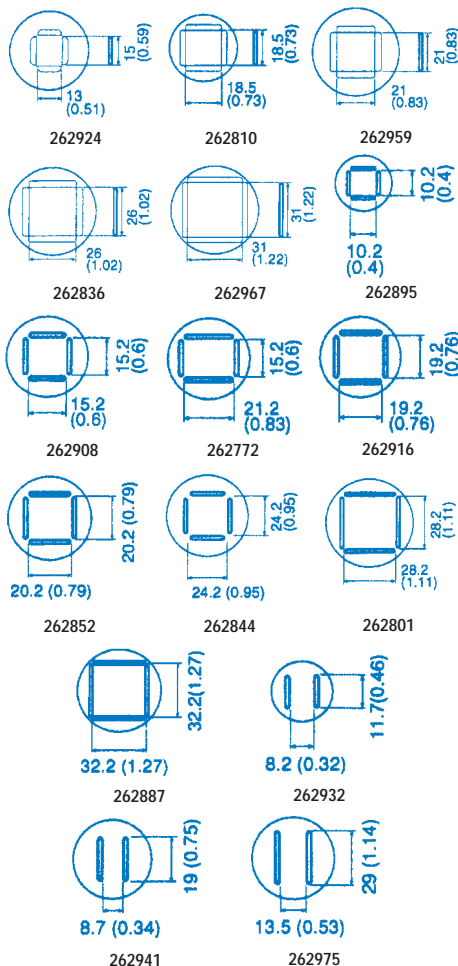


Lower \$\$\$

Part No.	Product No.	1	10
251791	209 	\$30.29	\$27.26

## Focus Hood Tips

Dimensions: mm (in.)



## Hot Air SMD Rework Station with Digital Display

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service/repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.

- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Hot air temperature range: 100°C - 385°C (212°F - 725°F) • 25W diaphragm pump
- Size: 7.4"W x 9.6"D x 5.0"H • Weight: 10.8 lbs.



Quantity SAVE

**Includes:** Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895 and 262908)

Part No.	Product No.	Description	1	5
262705	850D	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
262983	HG850D	Heat gun replacement	78.95	74.95
262924	A1141B	Focus hood tip, PLCC 11.5 x 14	34.25	25.69
262810	A1135B	Focus hood tip, PLCC 17.5 x 17.5	34.95	26.21
262959	A1136B	Focus hood tip, PLCC 20 x 20	48.95	36.71
262836	A1137B	Focus hood tip, PLCC 30 x 30	48.95	47.32
262967	A1138B	Focus hood tip, PLCC 30 x 30	48.95	36.71
262895	A1125B	Focus hood tip, QFP 10 x 10	34.95	33.25
262908	A1126B	Focus hood tip, QFP 14 x 14	34.95	33.25
262772	A1128B	Focus hood tip, QFP 14 x 20	34.25	25.69
262916	A1127B	Focus hood tip, QFP 17.5 x 17.5	34.95	33.25
262852	A1261B	Focus hood tip, QFP 20 x 20	49.95	48.29
262844	A1182B	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801	A1129B	Focus hood tip, QFP 28 x 28	48.95	44.06
262887	A1265B	Focus hood tip, QFP 32 x 32	79.95	75.95
262932	A1258B	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941	A1260B	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975	A1259B	Focus hood tip, SOP 13 x 28	49.95	48.29

## Weller® Digital Soldering Stations

684772:

- New WP80 soldering pencil offers 80 watts of power with short tip-to-grip (52mm)
- 80W of power
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H • Weight: 8.2 lbs.



684781:

- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
- Heating element is contained in the pencil rather than the tip
- Micro pencil with short tip-to-grip (37mm) puts you close to the work
- Iron stand has adjustable tilt angle in 4 positions ranging from 30° to 80°
- Uses WMP soldering pencil and WDH20 iron stand
- Size: 15.9"L x 10.9"W x 5.8"H • Weight: 7.5 lbs.

Part No.	Product No.	Description	1	5
684772	WD1002	80W	\$279.95	\$269.95
684781	WD1001	85W	279.95	269.95

## Weller® Pro Cordless Coldheat Soldering Iron

Using the patented Coldheat™ system, the Weller Pro Cordless melts solder instantly and is cool to the touch in just seconds. But unlike most other products, the Weller Pro has the power industrial professionals need to tin wire as large as 12AWG or join wires from 18-25AWG. With an average yield of 700 solder joints per 5 AA alkaline batteries, it has what it takes to be an invaluable tool anywhere field soldering is required.

- Polycarbonate body
- High/low/off power switch
- Bright white LED work light
- Red "in use" indicator light
- Requires 5 AA alkaline batteries
- Includes carrying case and CHT3 61° angle chisel tip

Part No.	Prod. No.	Description	1	5
684705	CHT100	Cordless soldering iron ...	\$40.29	\$37.25
684713	CHT1	50° angle bevel tip	11.19	10.65
684756	CHT2	61° angle conical tip	11.19	10.65
684764	CHT3	61° angle chisel tip	11.19	10.65



## CHIPQUIK SMD 2000 Removal System

### Complete Solder/Desolder Rework Kit

- Removal alloy, solder paste, 3" solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5" solder wick



Part No.	Description	1	10
208055	SMD 2000 removal system	\$99.95	\$94.99

## CHIPQUIK SMD Removal Kit

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5" of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application & clean-up



Part No.	Description	1	10
141305	SMD removal kit	\$24.95	\$22.45



- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs



## Workshop Chemicals



263530



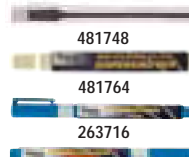
139934



118033



263572



481748

481764


263716

263732

### Envi•Ro•Tech™ Duster


Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

 Blue Part No. = Limited Quantity Available

Part No.	Description	Wt. (lbs.)	1	12
139900	10 oz. aerosol w/ trigger  *	0.8 ...	\$8.99	\$8.19
263530	15 oz. aerosol w/ trigger  *	0.8 ...	12.99	12.35

### Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934	10 oz. aerosol can  *	0.8	\$12.95	\$11.58

### ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041	10 oz. flux remover  *	0.8	\$10.85	\$10.50


### ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033	10 oz. contact cleaner  *	0.9 ...	\$9.19	\$8.35


### Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572	1 pint bottle  *	1.1	\$9.99	\$8.99


### Static Sensitive Brush

- Bristle: 1/8"L x 1/16"W
- Handle: 3.5"

Part No.	Description	Wt. (lbs.)	1	5
481748	Brush  *	0.1	\$8.05	\$7.69


### Fine-L-Kote™ Silicone Conformal Coating

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties, offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan™ to allow for black light inspection.

Part No.	Description	Wt. (lbs.)	1	12
481756	1 pint  *	1.1	\$32.15	\$31.34

### Fine-L-Kote™ Urethane Conformal Coating

As a urethane coating, this is highly resistant to most solvents, moisture, fungus, and molds. A clear, repairable coating, it is formulated with a black light indicator, Opti/Scan™, to provide checks for conformity in quality control.

Part No.	Description	Wt. (lbs.)	1	12
263556	12 oz. can  *	1.0	\$19.99	\$18.99

### No-Clean Flux Dispensing Pen

The resin and halide-free no-clean flux will leave no residues. It provides optimum wetting over a wide range of surfaces and will not damage commonly used plastics.

Part No.	Description	Wt. (lbs.)	1	5
481764	11.5 ml pen  *	0.1	\$5.69	\$5.55

### Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Makes smooth jumpers
- Links components
- Shields components


Part No.	Description	Wt. (lbs.)	1	12
263716	4.89 ml pen  *	0.1	\$18.99	\$17.99

### Overcoat Green Pen

Designed to insulate printed circuit board traces and components against high voltage arcing, and provides protection from moisture.

- Protects conductive pen traces
- Repairs permanent solder mask

 Blue Part No. = Limited Quantity Available

Part No.	Description	Wt. (lbs.)	1	12
263732	5 ml pen  *	0.1	\$11.49	\$10.54

### Zero Charge™ Hand Lotion

Contains natural products including aloe vera and vitamins A and E. Moisturizers penetrate rapidly leaving skin soft and non-greasy. Improves the contact between personnel and grounding devices such as wrist and heel straps.

Part No.	Description	Wt. (lbs.)	1	24
481684	8 oz. bottle	1.2	\$5.09	\$4.48

### Zero Charge™ Mat and Table-Top Cleaner

A neutral pH cleaner for general use in production areas that removes insulating contaminants such as flux residues, oils, greases, nicotine, dirt and grime.

Part No.	Description	Wt. (lbs.)	1	12
481713	1 quart bottle *	2.2	\$11.95	\$9.82

### Quick Test® Detector Activation Spray

This non-flammable aerosol is safe on the ozone layer while eliminating the risk of fire. A unique vertical actuator that when depressed, sprays a cloud of simulated smoke toward the detector setting off the alarm.

Part No.	Description	Wt. (lbs.)	1	12
481730	2.5 oz. aerosol *	0.3	\$5.59	\$4.62

## Chemtronics Chemicals



525843

525851



525915




525974



525835

### Freeze Spray


- Safe on plastics
- Nonflammable
- Wide spray for cooling entire boards
- Ozone safe

Part No.	Description	Wt. (lbs.)	1	5
525915	10 oz. aerosol can  *	0.8	\$13.67	\$11.89

### Glass & Plastic Cleaner

- Controls static, cleans and polishes in one application
- Compatible with plastics, glass and stainless steel
- Foaming spray won't run or drip; ideal for optical surfaces

**Quantity SAVE**

Part No.	Description	Wt. (lbs.)	1	5
525974	14 oz. aerosol can  *	1.1	\$11.09	\$8.32

### Chemask

**Quantity SAVE**

- Easy to use – peel off dried Chemask® masking agent
- Latex material is compatible with flux systems and stable with cleaning solvents

Part No.	Description	Wt. (lbs.)	1	5
525835	8 oz. squeeze bottle  *	0.7	\$14.65	\$10.99


### Chem Pads

- Ultra pure blend of 91% IPA/9% deionized water
- Mild cleaning solution, nonabrasive wipe
- Pack of 50 3" x 4" presaturated pads

Part No.	Description	Wt. (lbs.)	1	5
525843	3"x4" presaturated pads  *	0.7	\$23.89	\$21.56

### Double Head Cotton Tip Swabs

- Soft & highly absorbent compatible w/ most solvents

Part No.	Description	Wt. (lbs.)	1	5
525851	6" cotton swab  *	0.1	\$3.95	\$3.74

For complete 3M selection





www.Jameco.com

Over 99% of Our Catalog  
Products Are In Stock

Place your order by 6PM EST  
for same business-day shipment.

\*Shipped via UPS ground to continental U.S. only

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## DATAK Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.



Part No.	Product No.	Wt. (lbs.)	1	10
70412	ER1*	0.7	\$14.34	\$13.14

## DATAK Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

156751



Includes: Instructions

Part No.	Description	1	10	25
156751	Single sided	\$5.19	\$4.72	\$4.15
156742	Double sided	6.49	5.85	5.25
156734	4 oz. pos. developer*	6.95	5.95	4.95

## DATAK Dry Concentrated Etchant

- Makes one pint of etch solution



Part No.	Product No.	1	10	25
70201	ER3*	\$4.55	\$3.94	\$3.59

## DATAK Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.



Part No.	Product No.	Wt. (lbs.)	1	10
16731	12-750*	4.6	\$45.15	\$41.75

## Acid Brush

- Used for application of reactive solvents



Part No.	Description	1	10	100	1000
153322	Metal handle, 6" R	\$0.65	\$0.59	\$0.49	\$0.37

\*Shipped via UPS ground to continental U.S. only

## Use Precision Knife for Circuit Board Drafting Patterns



See page 286

## Lowest Price Guarantee

## GC Circuit Boards

### Bare Copper Circuit Boards

One ounce copper (0.0014") on base of either fiberglass or reinforced epoxy board. 1/16" thick.



#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616471	22-250	3" x 5"	\$2.69	\$2.53	\$2.23
616489	22-260	4" x 6"	3.59	3.35	2.95
616497	22-261	6" x 6"	4.99	4.66	4.11
616500	22-263	6" x 9"	5.69	5.32	4.69
616518	22-264	8" x 10"	8.89	8.32	7.34
616534	22-268	11" x 14"	17.75	15.09	13.19

#### Double-Sided Board

616526	22-267	6" x 9"	\$6.09	\$5.72	\$5.05
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#### Assortment's Single Sided Boards

- 1 each 2" x 4.5" and 3" x 4.5"
- 2 each 2.25" x 3"



Part No.	Product No.	1	10	50
616551	22-272	\$5.49	\$5.13	\$4.51

### Positive Pre-Sensitized Circuit Boards

1 oz. copper (0.0014") on 1/16" epoxy glass board, UL94V-0 rated. High quality positive pre-sensitized board is double protected from light and handling damage. The peel-off coating protects the board while handling or cutting prior to exposure.



#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616201	21-243	3" x 6"	\$4.45	\$4.18	\$3.69
616219	21-247	7" x 10"	11.75	10.95	9.67
616243	21-332	3" x 4"	5.29	5.00	4.75
616251	21-334	4" x 6"	5.35	4.99	4.40
616260	21-336	6" x 6"	5.99	5.58	4.92

#### Double-Sided Boards

616286	21-339	3" x 4"	\$4.25	\$3.99	\$3.52
616307	21-353	6" x 9"	11.55	10.80	9.53
616315	21-357	12" x 12"	29.35	27.85	26.46

### Circuit Board Drafting Patterns

An 8.5" x 11" sheet containing 2 dozen of the most commonly used pre-spaced component configurations. Self-adhesive pads may easily be removed from master sheet with a precision knife (recommend P/N 72768, pg 286).



Part No.	Product No.	1	10	50
616323	21-377	\$4.69	\$4.35	\$3.84

### Copper Circuit Tape

Six foot roll of 1/8" wide self-adhesive copper tape for quick repairs and modifications. Adheres easily to PC boards and similar surfaces, solder-ready. Low resistance, 0.002" thick.



Part No.	Product No.	1	10	50
616657	22-509	\$3.79	\$3.55	\$3.14

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

## GC Prototype Boards

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated.



- 0.1" centers
- Size: 3 1/8"W x 5 1/16"L x 1/16" thick

Part No.	Product No.	1	10	50
616631	22-504	\$4.05	\$3.80	\$3.35

### Experimenter's Phenolic Prototype Boards

Save time and money

with ready-to-use printed circuit boards. Excellent for use in prototype building, experimenting, hobby or science projects and kit building. 0.03" punched holes on 0.150" centers.



616649



616673

- 616649: Copper plated with 94 five-point terminals and two 40-point bus strips
- Size: 6.0"L x 2.0"W x 1/16" thick

- 616673: Size: 6 3/4"L x 3 3/8"W x 1/16" thick

Part No.	Product No.	Description	1	10	50
616649	22-508	Copper plated	\$9.25	\$8.65	\$7.63
616673	22-512	Sngl. land patt.	5.29	4.76	4.28

### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing
- Silver-plated land patterns
- Predetermined short tracks for multi-IC work
- 0.035" diameter holes
- Size: 3.5"W x 6"L x 1/16" thick



- 0.1" centers

Part No.	Product No.	1	10	50
616622	22-502	\$6.19	\$5.77	\$5.09

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.



616690

- 616681: 0.042" dia. holes, 0.1" spacing
- Size: 6.0"L x 2.25"W x 1/16"T
- 616690/616702: Size: 6.0"L x 4.5"W x 1/16"T
- 0.093" dia. holes, 0.265" spacing

Part No.	Product No.	1	10	50
616681	22-514	\$4.59	\$4.32	\$3.81
616690	22-516	5.29	4.96	4.37
616702	22-518	5.85	4.97	4.81

### Plug-In IC Phenolic Prototype Board

IC's plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin IC's. Silver plated lands with 24-way card edge connector plug on one end. 0.1" centers x 2 3/8" wide x 4" long x 1/16" thick, 0.035" diameter holes.



Part No.	Product No.	1	10	50
616614	22-500	\$2.45	\$2.33	\$2.21



## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

106551



206578



21435



52943



21477



Board Outline



A Holes Only



B Pad Per Hole



C Power/Ground Perimeter Bus with Pad Per Hole



D 3 Hole Solder Pad and Bus

Circuit Patterns

See PCB enclosures on pg 298, mounting hardware (recommend P/N 106551) below

Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 297)	Circuit Pattern	Hole Pads	# Holes x Dia. ↑	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.26	5.59	4.95
263186	PCB-403	1.80 x 3.10	18922	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105111	2300PCB	2.40 x 3.40	11869	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263207	PCB-463	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263215	PCB-858	2.50 x 4.50	18914	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105153	2851PCB	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105137	2320PCB	3.30 x 4.50	11885	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206587	2746PCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21452	JE405(8003)	4.50 x 5.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	14.36	10.77
206578	2743APCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105180	2505PCB	5.00 x 6.50	11893, 18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
21477	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.24
206594	2747APCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263232	PCB-7038	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09
263249	PCB-6088	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	37.19

### Other Manufacturers — Great Deals

28177	PCB1	2.42 x 4.10	18914	C	Plated through	674 x .040"	None	None	4 x .120"	.04	\$5.95	\$5.35	\$4.79	\$4.29
28193	PCB3	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.08	16.23

### Vector Products

43140	64P4400XP	4.50 x 6.50*	18869	A	Drilled only	2860 x .042"	None	None	None	.09	\$7.31	\$7.05	\$6.99	\$6.91
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	9.55	9.49	9.45	9.42
37604	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	18.45	17.55	16.75	15.95
37612	169P4400P	4.50 x 17.0*	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	15.65	14.99	14.40	13.92
37621	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	27.47	25.05	24.73	24.42
106551	20 pieces PCB board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										2.82	2.61	2.30	2.14

\* PCB material: phenolic

↑ All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)

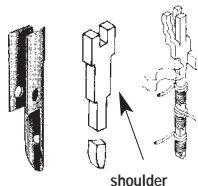
Blue Part No. = Limited Quantity Available



## Wire Wrap and Push-In Terminals

For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.
- 34147: Push-In Micro-Klip Terminals**
- Overall length: .36" • Post size: .032" x .045"
- 34155: Miniwrap Wiring Terminals**
- Shoulder: .045"
- Two-prong with square tail for wire wrapping
- Overall length: .69" • Post size: .025" Sq.
- 34163: Klipwrap Wiring Terminals**
- Shoulder: .045"
- Three-prong with square tail for wire wrapping
- Overall length: .83" • Post size: .025" Sq.



34147 34155 34163

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147	T421	.200	.097	\$8.75	\$8.34
34155	T44	.065	.530	11.45	9.80
34163	T49	.200	.530	14.27	12.99



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Single and double-sided boards are copper plated.

- 1.6mm thick



Fig. 1



Fig. 2



Fig. 3

Single-Sided							
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
169279	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.14	\$2.36
169288	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.46	3.56
169296	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14	10.93
Double-Sided							
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50
169309	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73	\$4.25
169317	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.16	5.72
169325	PCBD12X12	12.0 x 12.0	1	0.7	17.95	16.16	12.92

## PT Series Prototyping Boards

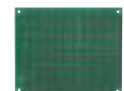
Accommodates any mixture of 0.3" to 0.6" wide IC's with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101179 & 101187, pg 174)

Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
645677	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140"	\$17.75	\$16.85	\$16.45
262511	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	24.75	22.95	21.79
262537	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	32.49	30.89	29.35



262511



262537



645677

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

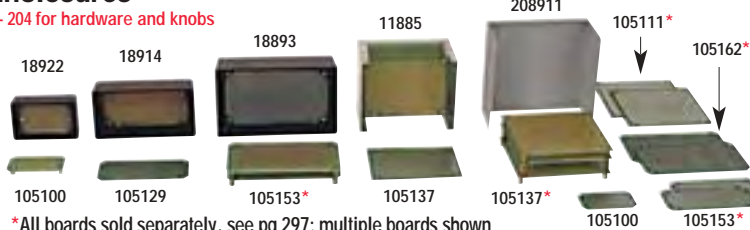
## JAMECO ValuePro

The prototype builder boards on pg 297 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 297 (P/N 106551).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

## Enclosures

See pages 203 - 204 for hardware and knobs



\*All boards sold separately, see pg 297; multiple boards shown

## ABS Plastic Enclosures

Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid.

All sizes below are for interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	0.1	\$3.15	\$2.84	\$2.55	\$2.30
18914	H2853	4.9" x 2.5" x 1.5"	0.2	3.69	3.32	2.99	2.69
18893	H2851	6.0" x 3.5" x 1.9"	0.4	4.79	4.31	3.88	3.49
18906	H2852	7.5" x 4.3" x 2.3"	0.5	7.25	6.51	5.86	5.27



## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
208901	B2741A	4.0" x 3.3" x 2.2"	0.4	\$6.49	\$5.89	\$5.29	\$3.96
208911	B2743A	5.9" x 5.3" x 3.0"	0.8	9.09	8.20	7.40	6.71
208929	B2744A	7.3" x 6.3" x 2.8"	1.1	10.15	9.14	7.31	6.42
209350	B2746A	6.3" x 7.8" x 2.5"	0.9	13.35	10.04	9.60	7.20
209358	B2747A	7.5" x 9.8" x 3.2"	1.4	17.99	16.19	12.95	9.78



## Die-Cast Aluminum Enclosures

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	0.2	\$5.95	\$5.39	\$4.85	\$4.35
11965	B5004	4.7" x 2.4" x 1.6"	0.4	8.99	8.10	7.29	6.56
11973	B5006	7.5" x 4.3" x 2.4"	1.2	16.74	15.08	13.56	12.21



## Aluminum Enclosures

Quantity SAVE

Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11869	B2300	4.0" x 2.0" x 2.8"	0.2	\$5.45	\$4.69	\$4.22	\$3.79
11885	B2320	5.0" x 4.0" x 3.0"	0.4	9.47	8.52	6.82	5.12
11893	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.25	8.29	7.49



## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

Color: gray

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	0.8	\$7.89	\$7.10	\$6.39	\$5.75
18877	H2507	10.0" x 7.5" x 3.1"	1.4	9.15	8.15	7.43	6.68



## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
141832	203C1	4.6" x 3.2" x 1.8"	0.3	\$9.99	\$8.99	\$7.99	\$6.99
141840	203D1	6.5" x 3.4" x 2.2"	0.4	10.49	9.49	8.49	7.49
141859	203F1	7.3" x 5.7" x 3.0"	0.8	11.99	10.99	9.99	8.99



## Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- 11341: stores sixty 8-pin or thirty 16-pin DIPs
- 11375: Designed to store all types of components

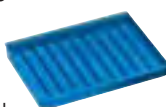
Part No.	Description	1	10	100
11341	30 compartments	\$5.95	\$5.49	\$4.85
11375	3 compartment vertical & 6 horizontal dividers	4.29	3.95	3.65



## Bug Tray

- Fits in bug cage (P/N 11332, below)
- 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

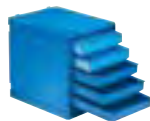
Part No.	Description	1	10	100
11800	Divided bug tray	\$3.19	\$2.87	\$2.58



## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Color: blue • Weight: 0.7 lbs.
- Case size: 5.0"L x 3.9"W x 5.1"H

Part No.	Description	1	10	100
11332	Bug cage	\$8.95	\$8.02	\$7.22



## Component Cabinet

JAMECO ValuePro



319600 Drawer (319601) Divider (319611)

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H
- Weight: 2.8 lbs.

319601: 5.5"L x 2.7"W x 1.5"H

319611: 2.5"W x 1.2"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

\* Minimum order 10 pieces

Part No.	Description	1	10	50
319600	Component cabinet	\$15.95	\$13.95	\$12.49
319601	Drawer for cabinet	.39	.35	.29
319611	Divider for cabinet	*	.19	.17



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JAMECO ValuePro

## Plastic Flip Top Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100255: Size: 8.4"L x 4.5"W x 1.4"H
- 148902: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

Part No.	Description	1	10	100
100255	18 compartments	\$2.25	\$1.91	\$1.43
148902	12 compartments	3.99	3.59	3.19



JAMECO ValuePro

## Plastic Flip Top Case for SMDs

- 128 compartments • Color: gray
- 8 rows x 16 columns grid
- Flip top openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 97
- Weight: 1.4 lbs. • Size: 11.0"L x 8.3"W x 1.7" Thick

Includes: Labels for each bin

Part No.	Description	1	10
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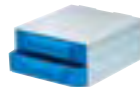


JAMECO ValuePro

## Stackable Drawers

- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906	Case/drawers	\$1.85	\$1.68	\$1.53





## Enclosures

**A Series — with PCB Boss Mounts**

- 4-piece design
- Interchangeable end panel
- 4-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
373309	A-20-BK	Black	None	4.25 x 2.60 x 0.88	\$5.55	\$4.37	\$4.19
373333	A-21-BK	Black	None	4.25 x 2.60 x 1.12	5.59	4.50	4.15
373368	A-27-BK	Black	None	5.31 x 3.35 x 1.50	8.35	6.95	6.76
373456	A-42-BK	Black	None	7.12 x 5.00 x 1.62	13.09	10.30	9.83
373608	A-42-9V-BK	Black	1-9V	7.12 x 5.00 x 1.62	14.65	11.55	10.99

**C Series — with Pinch-Fit for PCBs**

- Simple 2-piece design
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	\$2.29	\$1.81	\$1.61	\$1.60
694541	C-4-TR-GY	Gray*	2.13 x 1.38 x 0.58	3.85	3.06	2.78	2.69
675358	C-6-BK	Black	2.26 x 1.61 x 0.75	2.59	2.06	1.87	1.79
694559	C-6-TR-GR	Green*	2.26 x 1.61 x 0.75	3.85	3.06	2.78	2.69
675366	C-8-BK	Black	2.40 x 1.85 x 0.93	2.29	1.81	1.61	1.60
694567	C-8-TR-RD	Red*	2.40 x 1.85 x 0.93	3.85	3.06	2.78	2.69
675374	C-10-BK	Black	3.25 x 2.30 x 0.80	2.95	2.32	2.09	2.06
694575	C-10-TR-BL	Blue*	3.25 x 2.30 x 0.80	5.05	4.99	4.79	3.75
675382	C-12-BK	Black	3.75 x 2.40 x 1.00	3.55	2.77	2.15	1.97
694612	C-28-BK	Black	5.00 x 1.85 x 1.00	3.65	2.85	2.48	2.01

\* Translucent

**CH Series — Single Screw Assembled**

- Simple 2-piece design
- Insert area for customized I-plate

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675391	CH-4-BK	Black	2.27 x 1.52 x 0.59	\$2.85	\$2.21	\$1.93	\$1.60
675403	CH-6-BK	Black	2.39 x 1.74 x 0.76	2.85	2.21	1.93	1.60
675411	CH-8-BK	Black	2.58 x 2.02 x 0.93	3.19	2.79	2.54	1.93

**H Series — Handheld with Built-in Battery Holder**

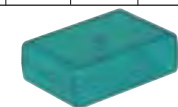
- Ergonomic handheld design
- 5-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
374395	H-45-BK	Black	None	3.90 x 2.20 x 0.94	\$5.95	\$4.65	\$4.51
374483	H-45-AAA-BK	Black	2-AAA	3.90 x 2.20 x 0.94	7.79	6.80	6.45
374424	H-65-BK	Black	None	4.94 x 2.75 x 0.94	6.19	5.03	4.55
694621	H-65-TR-GY	Gray*	None	4.94 x 2.75 x 0.94	12.69	11.12	10.71
694639	H-65-TR-RD	Red*	None	4.94 x 2.75 x 0.94	11.05	8.84	7.92
374512	H-65-AA-BK	Black	2-AA	4.94 x 2.75 x 0.94	6.69	5.26	5.05
374715	H-65-AA-TR-BL	Blue*	2-AA	4.94 x 2.75 x 0.94	14.35	11.28	10.75
374723	H-65-AA-TR-GR	Green*	2-AA	4.94 x 2.75 x 0.94	11.59	9.62	8.69
374635	H-65-9V-BK	Black	1-9V	4.94 x 2.75 x 0.94	7.35	6.39	5.84
374758	H-65-9V-TR-BL	Blue*	1-9V	4.94 x 2.75 x 0.94	13.09	10.47	10.39
374774	H-65-9V-TR-RD	Red*	1-9V	4.94 x 2.75 x 0.94	12.05	9.70	8.55
675323	H-67-BK	Black	None	4.94 x 2.75 x 1.28	6.85	5.99	5.79
374547	H-67-AA-BK	Black	2-AA	4.94 x 2.75 x 1.28	6.99	5.64	5.05
374942	H-67-9V-BK	Black	1-9V	4.94 x 2.75 x 1.28	6.69	5.46	4.99
374459	H-75-BK	Black	None	7.19 x 3.65 x 1.26	8.35	7.99	7.55
374601	H-75-4AA-BK	Black	4-AA	7.20 x 3.65 x 1.20	10.29	8.32	7.43

\* Translucent

## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

**M Series — Handheld with Built-in Battery Holder**

- Streamlined handheld design
- 5-insert areas for customized I-plates



Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675420	M-4-BK	Black	2.80 x 2.20 x 0.70	\$5.45	\$4.29	\$3.79	\$3.78
694663	M-4-TR-RD	Red*	2.80 x 2.20 x 0.70	9.35	7.50	6.62	6.59
694671	M-4-TR-BL	Blue*	2.80 x 2.20 x 0.70	9.35	7.50	6.62	6.59
675438	M-6-BK	Black	4.15 x 2.40 x 0.85	7.09	6.79	5.93	5.69
694815	M-6-TR-GY	Gray*	4.15 x 2.40 x 0.85	11.79	9.41	8.29	8.28
694807	M-6-TR-GR	Green*	4.15 x 2.40 x 0.85	11.79	9.41	8.29	8.28
675446	M-8-BK	Black	6.97 x 2.40 x 0.85	8.45	7.59	6.70	6.64

\* Translucent

**S Series — Two-piece Standard Enclosures**

- 2-piece design
- 2-insert areas for customized I-plates

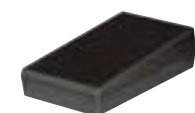


Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
675454	110-I-BK	Black	None	3.61 x 2.27 x 1.01	\$3.45	\$2.71	\$2.63
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	3.99	3.15	2.87
675471	031-BK	Black	None	4.38 x 3.25 x 0.91	4.75	3.72	3.65
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.15	4.05	3.99
675569	211-BK	Black	1-9V	4.10 x 2.60 x 1.51	3.55	3.36	3.02
675577	231-BK	Black	1-9V	4.38 x 3.25 x 1.51	5.25	4.17	3.69
675585	231-I-BK	Black	1-9V	4.38 x 3.25 x 1.51	5.25	4.17	3.69
675497	133-BK	Black	None	4.38 x 3.25 x 2.51	5.79	4.55	4.50
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	5.99	4.69	4.59
675593	251-BK	Black	1-9V	5.63 x 3.25 x 1.51	8.09	6.43	5.75
675518	153-BK	Black	None	5.63 x 3.25 x 2.51	6.65	5.22	4.18
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	8.75	6.79	6.69
675534	172-BK	Black	None	6.88 x 4.88 x 2.01	7.19	5.71	5.19
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	9.75	7.68	7.53
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	13.79	10.85	10.57

† Insert on top is recessed 0.015" on all models designated with an "I"

**SL Series — Sloped Top Enclosures**

- Slanted top
- 2-insert areas for customized I-plates



Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
694698	05-SW-BK	Black	5.63 x 3.25 x 0.91	\$5.65	\$4.70	\$4.21	\$3.59
675606	15-S-BK	Black	5.63 x 3.25 x 1.51	5.99	4.70	4.27	4.23
694680	27-S-BK	Black	6.88 x 4.88 x 2.49	9.95	8.22	7.81	7.43

**R Series — Waterproof Cases**

- Lifetime guarantee
- Airtight and UV protected
- Waterproof to 30ft, dustproof, corrosion proof
- Features auto pressure purge valve, secure lock holes, nut & bolt security, and foam-filled

Lower \$\$\$



Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675614	R-120F	Black	7.6 x 5.0 x 2.2	\$16.25	\$14.08	\$12.76
675622	R-300F	Black	9.59 x 7.42 x 3.98	23.59	22.99	22.62
675631	R-520F	Black	12.8 x 9.0 x 6.0	49.75	45.99	44.50
675649	R-720F	Black	18.3 x 13.2 x 6.72	88.91	76.61	73.87

**CA Series — Keychain Style w/ Battery Compartment**

- Ergonomic design
- 0-4 button configuration
- Designed to hold a 20mm coin cell battery
- Assembles with two or three screws



Part No.	Product No.	Buttons	Color	Size (L"xW"xH")	1	10	50
694583	CA-4, 2-BK	2	Black	2.48 x 1.73 x 0.60	\$3.55	\$2.83	\$2.43
694591	CA-4, 3-BK	3	Black	2.48 x 1.73 x 0.60	3.29	2.57	2.10
694604	CA-4, 4-BK	4	Black	2.48 x 1.73 x 0.60	3.29	2.57	2.10

Please Note: Images used are representative. Color and shapes vary by model.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend

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299

BELLIN DYNAMIC SYSTEMS, INC.

## Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 141)
- Size: 7.6"L x 5.0"W
- Board thickness: 0.031"
- See our website ([www.Jameco.com](http://www.Jameco.com)) for additional specifications



Quantity SAVE

Application example using 215503



Portion of 227299

### Small SMT

Part No.	Prod. No.	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$45.95	\$41.35
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

### SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$45.95	\$41.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328	B511	63 SMT pattern, SOIC nrv/wd 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

### Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	\$45.95	\$41.35
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	62.49	56.25
323900	B517	18 SMT pattern, 0.65/0.5/0.4mm TSSOP-48 to DIP 0.600	45.95	41.45
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	45.95	41.45

### Quad

215511	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	\$45.95	\$41.35
323918	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	44.96
323926	B519	2 SMT 0.4mm or 0.5mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
336487	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	32.75
336495	B532	8 SMT, 0.40/0.50mm QFP/MLF 8 - 80 pins (even # of pins/side)	45.05	33.79
336508	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	32.75
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins	45.95	41.45

### PCB Connector (0.062" thick through-hole)

227272	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn.	\$45.95	\$34.46
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### PitchStick™

227299	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	\$45.95	\$34.46
227301	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	45.95	34.46
681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	45.95	41.45

### Kits

Part No.	Prod. No.	Description	Price
681168	KIT-100	1 each of B500, B502, B503, B504, B505, B507	\$169.95
681176	KIT-101	1 each of B500, B504, B513, B514, B516, B517	169.95
681184	KIT-202	1 each of B504, B508, B510, B513, B514, B516, B517, B535, B536, B537 & 2 of B500	349.95
681205	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	529.95

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

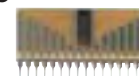


## Surfboards®

Mini Breadboards for Surface Mount Devices.



207360



207394



207589

Part No.	Product No.	1	10
207360	9081 (For 8-pin SOIC)	\$1.35	\$1.22
207378	9082 (For 8-pin SOIC)	3.55	3.10
207386	9161 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	1.75	1.50
207394	9163 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	5.45	4.79

### Application Specific Adapters

Part No.	Product No.	Accepted Devices	Pins	1	10
207589	33205	SOT-23-5/SC59-5	5	\$1.35	\$1.18
207597	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.95	1.69

Blue Part No. = Limited Quantity Available

## microEngineering Labs

### LAB-X1 Experimenter's Module Board

It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.

- 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P (P/N 176882, pg 4)
- Reset button • 16 switch keypad
- 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Size: 5.5" x 5.6" • One-year warranty
- Socket for I2C & SPI serial EEPROM, RS485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit

Requires: AC adapter (below)

Part No.	Description	1	10
169113	LAB-X1 Experimenter Board	\$199.95	\$189.95
176882	PIC16F877-20/P microcontroller (pg 4)	9.29	8.05
127976	AC adapter (details on pg 238)	5.99	5.66
1581222	LAB-X1 Tutorial & Resource Book	49.95	48.95

## microEngineering Labs

### EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 4.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming
- PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397	8/18/20-pin ZIF adapter	34.95	31.95
132610	40/28-pin ZIF adapter	34.95	31.95
162317	AC wall adapter (16VDC/500mA, details on pg 239)	10.50	9.18
67257	6' DB25 cable (details on pg 126)	7.05	6.31

## PLCC Prototype Adapters

- PCB construction
- Tin-plated PLCC connector • Gold-plated round pins
- PLCC socket slotted for PLCC chip remover
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10



73551

Part No.	Pins	Size (L x W)	1	10	100
73541	44	2.3" x 1.6"	\$11.95	\$10.79	\$9.69
73551	68	3.4" x 1.6"	19.14	16.28	11.94
73569	84	4.3" x 1.9"	27.85	23.69	17.77



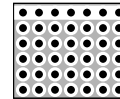
## ISA Printed Circuit Prototyping Board

Printed circuit prototyping boards for virtually any application including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

• Edge contacts: gold



Circuit Pattern



Power/Ground Perimeter Bus with Pad Per Hole



Part No.	Cross Ref. No.	Description	Size (Inches) W x L	Terminals (pg 297)			I/O Connector (not included)	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing		
				T44	T49	T421							1	10	25
28206	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4" x .120"	0.23	\$30.19	\$27.16	\$24.47



## Prototyping Boards

The only prototyping system that allows one to work on one circuit block at a time, test the blocks individually, and then connect the blocks together. This is why the system is called "Electronic Circuit Building Blocks."



1537580



1537723



1537635



1537660



1537686

### Thru Hole Boards

Part No.	Product No.	Description	Price
1537580	201-0001-01	0.1" center spacing w/ 0.5" offset, 12 ground holes	\$5.49

### Discrete Surface Mount Boards

1537715	202-0034-01	0201/0603/0805/1206/1210/1608/1812/ 2010/2512 discrete SMT in case size A/B/C	\$10.99
1537723	202-0035-01	SOT23-3/5/6/SC70-5/6/DPAK/D2PAK/SOT223/T0263-7/ SOT89/0805/1206 discrete in case size A/B/C/D/E	10.99

### SO/SOP Boards

1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	\$10.99
1537643	202-0007-01	Up to 72-pin SO/SOP/QSOP/SSOP/TSSOP/PSSOP w/ 0.5mm pitch, 0603 & 0805 discrete, 6 ground holes	10.99

### QFP Boards

1537651	202-0009-02	Up to 64 pins QFP, TQFP, PQFP w/ 0.8mm pitch & 0603 discrete, 22 ground holes	\$10.99
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch & 0603 discrete, 6 ground holes	10.99

### CHIPSCALE (QFN) Boards

1537678	202-0016-01	Supports 12-24 pins w/ 0.5mm & 0.65mm pitch	\$10.99
1537686	202-0017-01	Supports 10 & 32 pin w/ 0.5mm pitch	10.99
1537694	202-0018-01	Supports 8 & 48 pin w/ 0.5mm pitch	10.99
1537707	202-0020-01	Supports 64 pin w/ 0.5mm pitch	10.99

### Thru Hole I/O and Power Board

1537598	201-0100-01	Power & ground strip	\$2.75
1537601	201-0104-01	DB-25 connector	2.75
1537619	201-0105-01	JTAG 20-pin w/ 0.1" spacing & IEEE 1394	2.75
1537627	201-0106-01	RGB HD-DB15, 4 ground holes	2.75
1537803	201-0101-01	Drive power conn. & power jack, 12 ground holes	2.75
1537811	201-0102-01	ATX power connector, 10 ground holes	2.75
1537820	201-0108-01	RJ11 or RJ45 & one USB-B conn., 8 ground holes	2.75

### Accessories

1537740	920-0005-01	10 pcs. 22AWG 3" jumper wires & 20-pin headers	\$5.49
1537758	920-0006-01	10 pcs. 22AWG 5" jumper wires & 20-pin headers	5.49
1537766	920-0007-01	10 pcs. 22AWG 7" jumper wires & 20-pin headers	5.49
1537774	920-0008-01	100 pcs. 22AWG 3" jumper wires	41.89
1537782	920-0009-01	100 pcs. 22AWG 5" jumper wires	41.89
1537791	920-0010-01	100 pcs. 22AWG 7" jumper wires	41.89

**SCHMART MODULE** Operates on a single 5V power source, ESD protected in excess of 15KV on all I/O lines, 4 LED's (2TRX & 2RCX), pre-installed headers for transceiver lines, +5V, & ground.

Part No.	Product No.	Price
1537731	710-0001-01	\$16.55

## microEngineering Labs

## "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
  - Large prototyping area
- Solder mask on both sides makes soldering easy
  - Silkscreen legend

**Includes:** Documentation sheet with schematic, suggested parts and placement



132644



176891



132636



132652

**PICProto 18, 18L:** For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891	PICProto 18L	3.6 x 4.1	19.95	17.95

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
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**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
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## microEngineering Labs

## PICBasic and PICBasic Pro Compiler

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Serial speeds to 9600 baud
- May use up to 2k of code space
- Interrupts in BASIC and assembler
- Supports PIC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- PEEK and POKE instructions to access any register from BASIC



132661

### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
  - Bit, byte, word arrays
- Real If...Then...Else...Endif
  - Hierarchical expression handling
- Interrupts in BASIC and assembler
  - BASIC Stamp I and II library
- Built-in LCD support
  - MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12C67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661	PICBasic compiler	\$99.95	\$89.95
150543	PICBasic Pro compiler	249.95	224.95

## We're Listening to Your Requests

Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com) with suggestions for products you'd like to see in future catalogs.

## USB Interface Universal Programmer

- 12,000+ device types supported
- Programs EPROM, EEPROM, Serial PROM, Flash, PLD/CPLD/FPGA, and MPU/MCU
- High speed USB port is provided to connect to the majority of notebook or desktop PCs running Windows® 95/98/2000/XP
- On-board 40-pin socket for programming 8-pin to 40-pin IC's
- Utilizes flexible pin drivers to get accurate waveforms
- High programming speed plus over-current protection, reverse insertion detection, self diagnostics, etc.
- Menu-driven software
- Single chip controller, "Yes" key for hit operation, Good and Busy LED indicators
- Load file, read master, program, verify, auto, ID check, check sum, blank check, erase, secure, protect/unprotect, edit, function configuration, and self-test functions
- Power requirements: 100 - 240VAC @ 50-60Hz • Size: 9.8"W x 8.7"L x 2.0"H



**HI-LO SYSTEMS**

**Includes:** USB cable (USB A - USB B), power cord, manual and CD-ROM software

**System Requirements:** Intel Pentium® or compatible processor w/ 32MB of RAM, USB port, 20MB disk space, Windows® 98/ME/2000/XP/2003, CD-ROM drive

Part No.	Product No.	1	5
667403	ALL-11A	\$985.95	\$955.95

## Universal Programmer – Pocket Size & Battery Powered

### Parallel Port Interface

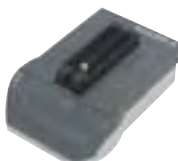
A unique ASIC pin driver, designed specifically for this latest generation programmer, enabling the first true universal input/output capability.

- Supports over 6400 devices: 8-bit and 16-bit EPROM, EEPROM, Flash EPROM, Serial EEPROMs, all Microcontrollers, GAL/PAL/CE without adapters
- Support for ultra-low voltage devices down to 1.3V
- High speed data transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- Integrated editor's many features allow user to edit device data, which can be loaded or saved in Intel HEX, Motorola S or binary format
- Operates on AC power adapter or 6 NiMH batteries
- Size: 4.5"L x 3.1"W x 1.3"H • Weight: 0.5 lbs.

**Includes:** Printer port data cable, power adapter and CD-ROM

**System requirements:** PC with Pentium® CPU

Part No.	Description	1	5
226309	GALEP-4	\$369.95	\$351.49



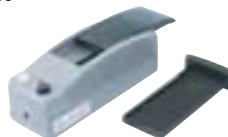
**GALEP-4**

## HI-LO SYSTEMS

## EPROM Eraser

- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs
- One-year warranty
- Conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.

**Includes:** AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes



Part No.	Description	1	5
121267	EPROM eraser	\$165.79	\$160.49

## UVP

## EPROM Eraser and Accessories

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm²

- Weight: 2.3 lbs.
- Size: 9.0"L x 3.7"W x 2.6"H



Part No.	Description	1	5
15712	8-chip eraser	\$106.85	\$101.49
34382	Lamp for 15712	39.95	29.95
13864	Foam (12" x 24" x 0.25")	9.29	8.35

## Flash Writer/Programmer with USB Interface

- Supports Flash EPROM, EPROM & EEPROM
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix

**Includes:** USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947	Leaper 3D	\$199.95	\$179.95



## Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt and convenient cross search, Flash memory auto detection
- Supports EPROMs, EEPROMs, Flash EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSPs and PLDs
- Supports file formats JEDEC, binary, Intel 80/86 HEX, Motorola HEX, Tektronix HEX

**Includes:** USB cable, 12V @ 1.5A power adapter and CD-ROM software

**System requirements:** Pentium® II or higher, 32MB RAM minimum, 30MB hard disk space, Windows® 98/ME/2000 operating system

Part No.	Description	1	5
225939	Leaper 48	\$577.15	\$552.44



## 512k (E)EPROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone (E)EPROM Flash programmer. Also interfaces with your PC through the USB port.

- Programs EPROMs, EEPROMs, Flash EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code, Intel HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP • Size: 6.3"L x 4.3"W x 1.8"H

**Includes:** USB cable, 12VDC @ 500mA power adapter and CD-ROM

Part No.	Description	1	5
220636	Leaper-3C	\$299.95	\$283.35



## High-Speed Universal Device Programmer/Tester

### Parallel Port Interface

- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 8000+ device types supported
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Current limiting protects hardware circuits from improperly inserted or defective chips
- Supports POF and JEDEC formats
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors
- CE/CUL/CSA quality certified

**Includes:** Parallel cable, installation diskette, power cord and manual

**System Requirements:** IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765	TOPMAX	48-pin universal ZIF	\$875.95	\$681.86



**MADE IN USA**

**XELTEK**

## 35,000+ Device 48-Pin USB/Stand-Alone Programmer

- Fastest low-cost programmer in the market: programs high-density Flash memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.: 13 sec. for programming & 5 sec. for verifying)
- Currently 35,000+ devices supported from 140+ manufacturers including memory, MCU, and PLD
- Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, Flash Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Overcurrent/overvoltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 9x/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.



231221

**Includes:** 12VDC @ 2.5A AC adapter, program CD, USB cable and manual

Part No.	Description	1	5
231221	SuperPro-3000U USB universal programmer .....	\$989.95	\$940.45
231255	32-pin PLCC adapter .....	\$94.95	\$90.25

## XELTEK 19,000+ Device 48-Pin USB Programmer

- High speed programming, 32Mb flash in 13.5 seconds (program + verify)
- ISP (in-system programmable) devices supported
- Supports EPROM, paged EPROM, parallel & serial EEPROM, FPGA configuration serial PROM, FLASH memory (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, microcontroller, MCU, standard logic
- Standard 48-pin universal drivers and adapter
- Advanced hardware features minimized bounce noise
- Pin continuity & wrong chip insertion check prevents chip from accidental damage
- Over current and over voltage for programmer hardware
- Software supports Windows® 98/ME/NT/2000/XP



692457

**692457:** supports 19,000+ devices from 132+ IC manufacturers

**692449:** supports 27,000+ devices from 146+ IC manufacturers

**Includes:** Power adapter, manual, program CD and USB cable

Part No.	Description	Price
692457	SUPERPRO 280U programmer .....	\$524.95
692449	SUPERPRO 580U programmer .....	659.95

## EE Tools Universal 48-Pin USB Programmer

- Supports 7,000+ devices including the latest NAND flash memory, standard flash memory, EPROM, EEPROM, serial PROM & microcontrollers
- Device programming speed: 1.5M-bit per second
- Low voltage supports 5, 3.3, 3, 2.7, 2.5, 1.8V programming voltages
- Blank check/program/verify 4M-bit flash memories in 85 sec.
- Supports ASCII, Intel HEX, Motorola S, Tektronix HEX, JEDEC & HOF file formats • Weight: 3.5 lbs.
- User-friendly menu driven iram, verify, blank check, erase, gang programming mode, edit & set programming options via host PC
- Independent start key in each socket
- Input voltage: 100-240VAC @ 50-60Hz • Size: 10.6"W x 3.8"D x 2.5"H



**Includes:** USB cable, CD-ROM software and manual

**System requirements:** 386/486/Pentium® or compatible, USB 1.1 or 2.0, 4MB hard disk space, 16MB RAM, Windows® 95/98/ME/2000/NT/XP operating system

Part No.	Product No	1	5
694891	PROMAX-4G .....	\$2,225.75	\$2,114.46
694882	TM-8G-DP (8-gang adapter) .....	336.45	319.58

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**XELTEK**

## 30,000+ Device/48-Pin USB Stand-Alone Gang Programmer

- 4 high speed 48-pin DIP programming sockets with four 128MB flash cards
- Supports 30,000+ devices, and growing
- Operates in both PC and stand-alone mode for volume production
- Programs latest low voltage devices
- Asynchronous fast programming, each module is independent from one another
- ISP (in-system programmable) devices supported
- Programming starts automatically when a chip is inserted
- Supports EPROM, EEPROM, serial EPROM, paged EPROM, serial PROM, flash EPROM (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, MCU, microcontroller, SRAM, and standard logic devices with voltages down to 1.5V
- Stand-alone interface: 16 characters x 4 lines backlit LCD, 6 standard hard-keys, 4 compact flash cards (removable which can support up to 256MB)
- Operating volt.: AC input of 90-250V @ 50/60 Hz, or 24V @ 5A power adapter
- Size: 21.3"L x 7.7"W x 2.3"H



**Includes:** 4 128MB CF cards, AC adapter, CD-ROM, USB cable and manual

Part No.	Description	Price
692490	SUPERPRO 9000U programmer .....	\$3,295.05

## XELTEK 3400+ Device, 40-Pin Programmer

- Supports 3400+ devices, including most E(E)PROM, Series E(E)PROM & Flash
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronix (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 9x/NT/2000/XP • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.



**Includes:** Power adapter, parallel cable, manual and CD-ROM software

Part No.	Description	1	5
231183	SuperPro-Z universal programmer .....	\$244.95	\$232.69

## 13,000+ Device USB Only Programmer

### USB Interface

- Universal device (13000+) support includes the latest NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, and Microcontrollers
- On-board FPGAs for extremely fast communication
- Supports real low-voltage support: 5, 3.3, 2.7, and 1.8 volt for programming power
- Detects all pin locations for poor or damaged pin contacts
- External "Start" key allows customer to execute the optional auto program parameters without PC command
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors • External switching power supply, 110-240VAC
- Support a high-speed USB2.0 port for PC interface
- Support a standard IEEE-1149.1 (JTAG) port



EE Tools

**Includes:** USB cable, wall adapter, program CD and manual

**System Requirements:** IBM PC 386,486, Pentium® or compatibles with USB port, Windows® 98/Me/2000/NT/XP, hard drive, 512K RAM

Part No.	Description	Socket	1	5
694866	CHIPMAX 2 .....	48-pin ZIF .....	\$544.95	\$517.75

### Parallel Port Interface

- 5000+ device types supported including (E)EPROM, PROM, Serial PROM, PALCE, GAL, Flash memory, microcontrollers, ATF

**Includes:** Parallel cable, wall adapter, diskette and manual

**System Requirements:** IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731	CHIPMAX .....	40-pin ZIF .....	\$349.95	\$332.95



## Solderless Breadboards

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (pg 305).



- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty \* WBU5 and JE series do not interconnect



20758



20774



20791



20812

**Attention Educators! Buy jumper wire (pg 305) in bulk and SAVE!** (see Hook-up Wire on page 122)

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 305)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)



20601



94457



20670



20723



136901



421315

Part No.	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	10	50	100
94457	JE19	0	1	100	0	6.5 x 0.4	—	0.04	\$3.18	\$2.34	\$2.23	\$2.12
20601	JE21	1	2	400	0	3.3 x 2.1	—	0.13	5.49	4.97	4.46	4.02
20670	JE22	1	0	630	0	6.5 x 1.4	—	0.20	6.59	5.94	5.39	4.74
194299	JE37	1	2	640	0	6.9 x 2.4	—	0.25	11.25	10.11	8.08	6.06
20723	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.85	8.87	7.99	7.19
194271	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	19.14	17.82	16.94	16.08
20758	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901	WBU504 *	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.89	20.90	18.90	16.90
20774	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20791	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20812	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

## Great Savings on Breadboard Test Leads

Part No.	Description	1	10	25
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" L wire length (150mm)	\$12.95	\$11.69	\$10.49



## Prototyping Boards

The only prototyping system that allows one to work on one circuit block at a time, test the blocks individually, and then connect the blocks together. This is why the system is called "Electronic Circuit Building Blocks."



1537580



1537723



1537635



1537660



1537686

### Thru Hole Boards

Part No.	Product No.	Description	Price
1537580	201-0001-01	0.1" center spacing w/ 0.5" offset, 12 ground holes	\$5.49

### Discrete Surface Mount Boards

1537715	202-0034-01	0201/0603/0805/1206/1210/1608/1812/ 2010/2512 discrete SMT in case size A/B/C	\$10.99
1537723	202-0035-01	SOT23-3/5/6/SC70-5/6/DPAK/D2PAK/SOT223/TO263-7/SOT89/0805/1206 discrete in case size A/B/C/D/E	10.99

### SO/SOP Boards

1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	\$10.99
1537643	202-0007-01	Up to 72-pin SO/SOP/QSOP/SSOP/TSSOP/PSSOP w/ 0.5mm pitch, 0603 & 0805 discrete, 6 ground holes	10.99

### QFP Boards

Part No.	Product No.	Description	Price
1537651	202-0009-02	Up to 64 pins QFP, TQFP, PQFP w/ 0.8mm pitch & 0603 discrete, 22 ground holes	\$10.99
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch & 0603 discrete, 6 ground holes	10.99

### CHIPSCALE (QFN) Boards

1537678	202-0016-01	Supports 12-24 pins w/ 0.5mm & 0.65mm pitch	\$10.99
1537686	202-0017-01	Supports 10 & 32 pin w/ 0.5mm pitch	10.99
1537694	202-0018-01	Supports 8 & 48 pin w/ 0.5mm pitch	10.99
1537707	202-0020-01	Supports 64 pin w/ 0.5mm pitch	10.99

### Thru Hole I/O and Power Board

1537598	201-0100-01	Power & ground strip	\$2.75
1537601	201-0104-01	DB-25 connector	2.75
1537619	201-0105-01	JTAG 20-pin w/ 0.1" spacing & IEEE 1394	2.75
1537627	201-0106-01	RGB HD-DB15, 4 ground holes	2.75
1537803	201-0101-01	Drive power conn. & power jack, 12 ground holes	2.75
1537811	201-0102-01	ATX power connector, 10 ground holes	2.75
1537820	201-0108-01	RJ11 or RJ45 & one USB-B conn., 8 ground holes	2.75

## Wire Jumper Kit (350 pcs.)



- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers



19290

**19290: 350-piece wire jumper kit**  
 • Handy, durable, clear plastic case

**20080: 350-piece refill for 19290**  
 • Case not included




Part No.	Description	1	10	50	100
19290	Wire jumper kit 	\$16.59	\$14.97	\$13.47	\$12.12
20080	Refill for 19290 	11.65	10.48	9.43	8.59

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126342

Part No.	Cross Ref. No.	Length (mm/inch)	1	10	100
126360	JW50 	50/1.97	\$4.45	\$3.90	\$3.29
126342	JW100 	100/3.94	5.49	4.98	4.49
126325	JW200 	200/7.87	5.79	5.23	4.74



## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

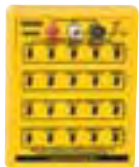
- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.



211668

**211668:**

- 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments



211676

**211676:**

- 5 decade ranges of capacitance
- 5% capacitance substitution from 100pF to 11,111μF

Part No.	Description	1	10
211668	Resistance	\$99.95	\$94.89
211676	Capacitance	130.25	123.68

## Fabricating Printed Circuit Boards

**Newnes Publishing** Designing and fabricating a single-printed circuit board for a design prototype or producing boards for a limited number of devices can be a major headache for electronics engineers and hobbyists. In this hands-on guide, the author describes the complete process of taking a schematic diagram and using it to produce a printed circuit board. (236 pages, 2002)



- Size: 7.0" x 9.3"

Part No.	Description	Price
667391	Printed Circuit Boards Book	\$29.99

## Digital/Analog Design Labs

- Two 7-segment displays (digit height: 0.3")
- One-year warranty

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable • Triangle wave output: 6Vp-p fixed • Square wave output: ±5V fixed



75839

Our most popular digital lab!

International 115/220VAC Switchable



201890

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75839	1580	±5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890	2960	±5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
75839	Digital lab 	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95	\$226.95
201890	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	429.95	365.46	305.56

## Digital/Analog Design Lab

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies



- Variable DC output: 0 to +15V & 0 to -15V @ 500mA
- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vpp variable • Triangle wave output: 0-6 Vpp variable • Square wave output: 0-8 Vpp variable

### Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 8 data switches
- 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- 2 banana sockets, 2 BNC jacks
- One-year warranty
- Two 7-segment LED displays (digit height: 0.3")
- 8 red LEDs with separate input terminals

**Includes:** Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
136267	Digital/analog lab 	12.8 x 9.8 x 3.7	8.5	\$439.95	\$399.95	\$335.95
319214	Replacement breadboard 	6.7 x 6.5 x 0.4	0.5	24.95	22.70	21.58

## Powered Project Boards

- Solderless breadboard with 2420 tie points
- Power switch with light
- Outputs are short-circuit protected
- Weight: 6.8 lbs.


**Includes:** Power cord

**136259:** fixed power:

- +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
- Back panel has ground terminal
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907, pg 113
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- One-year warranty

**1537264:** fixed power: +5V @ 1A; variable power:

- 0 to ±16VDC @ 300mA • Fuse protection
- Front panel has color coded terminals for DC output power supply, adjustable knobs & ground terminal
- Input voltage: 110/220VAC @ 50-60Hz switchable
- Breadboard size: 5.8"W x 6.5"L
- Enclosure size: 10.0"L x 7.8"W x 2.4"D

Part No.	Description	1	10	25
136259	Powered brd 	\$109.95	\$103.88	\$101.94
1537264	Powered breadboard	84.05	75.00	64.00



136259

## AC/DC Power Supply

*Ideal for Breadboards on previous page*



International 120/220VAC Switchable

### Output Specifications:

- +5VDC @ 1A;
- -5V @ 300mA fixed;
- 0 to +15VDC @ 500mA variable;
- 0 to -15VDC @ 300mA variable;
- 12-6-0-6-12 tapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 279
- Size: 7.4"W x 5.5"D x 2.6"H • Color: beige
- Weight: 5.5 lbs. • One-year warranty

Part No.	Description	1	10	25
77682	Power supply 	\$139.15	\$127.54	\$115.94

We're committed to providing you with the best service in the industry.

## 60° Line Generating Lens

- Adjustable focus range: 50cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Length at 1 meter distance: 1.7 m



Class IIIa Laser Product

Part No.	Description	1	10	25
134148	60° lens	\$12.95	\$11.49	\$9.95

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia
- One-year warranty



Class IIIa Laser Product

Part No.	Description	Price
310519	Laser module, brass	\$44.95

## Laser Diode and Driver

### 182932: Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11° from center line max.



182932

### 161737: Laser driver w/ regulator

- Input voltage: 2.6-6VDC
- Input current: 40mA



161737

Part No.	Description	1	10	25
182932	650nm laser diode	\$14.95	\$13.45	\$12.15
161737	Laser driver	8.39	7.32	6.59

## 650nm Line and Dot Laser Diodes

### 143845/173243:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

Class IIIa Laser Product



173243

### 143845: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

### 173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

### 143837:

### Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



143853

### 143853: Laser module mount

- Built to hold laser diode on target
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845	Line laser diode module	\$114.95	\$103.95
173243	Cross hair laser diode mod	89.95	80.95
143837	Regulated power supply	19.95	17.95
143853	Laser diode module mount	51.45	38.59

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## Green Laser Pointer



Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day manufacturer's warranty

Includes: Metal gift box, clip and 2 AAA batteries

Part No.	Description	Price
223731	Green laser pointer	\$152.25



## Stylus Laser Pointer

A multi-function laser that serves as a stylus pen for PDAs. Buttons for a flashlight or laser pointer.

- 500 yard range for laser-pointer function
- Super bright white LED for flashlight
- Brass body, satin silver color
- Output power: 5mW max.
- Size: 5.63"L x 0.38"Dia.

Includes: 3 LR41 batteries

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
421702	Stylus laser pointer	\$24.95	\$22.46



## Laser Pointer Pens



153605



127749

- Range up to 500 yards
- 670nm red laser

Class IIIa Laser Product

Includes: 2 AAA batteries

Part No.	Description	Size (L" x Dia")	1	10
153605	Black pen	5.2 x 0.4	\$19.95	\$17.95
127749	Silver brass	5.4 x 0.4	19.95	18.95

# BASIC Robot Controller Kits PARALLAX

## Board of Education Full Kit

### The Board of Education

Full Kit is a concise package of all the hardware you need to begin building projects with the BASIC Stamp microcontroller. Everything you need is included except for a power supply, components and parts to build projects. So if you plan to purchase the Stamps in Class parts and kit selections or if you have a workshop full of LEDs, resistors, capacitors, sensors and more, then this is the right kit for you.

- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- DB9 connector for BS-2 programming and serial communication during runtime
- Female 10-pin dual row connector for optional AppMods
- P0 - P15 I/O pins

Includes: Board of Education carrier board, BS-2 module, pluggable wires, serial cable and CD-ROM

Part No.	Product No.	1	10
1536907	28103	\$118.95	\$96.99

## Boe-Bot Full Kits

### Now with Robotics text v.2.0!

The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and Basic Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4 AA batteries (not included).

Part No.	Product No.	1	10
282933	28132 (serial)	\$148.45	\$147.09
387997	28832 (USB)	148.45	147.09

## Advanced Toddler Robot Kit

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation.

The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced embedded programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above.

- Height: 10"
- Weight: 4.0 lbs.

Blue Part No. = Limited Quantity Available

Includes: 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual

Part No.	Product No.	1	10
282837	2731	\$248.95	\$236.49

## Stamp Works Kit Plus

This all-in-one kit includes a well-written collection of 35 experiments that will teach you first class BASIC stamp programming.

• Weight: 10 lbs.

**Includes:** Stamp Works experiments and Basic Stamp Source Code book, Basic Stamp Syntax and Reference Manual, professional development board (28138), 2 x 16 parallel LCD with custom cable, BS2 module, 3 rolls of 100' 22AWG wire, photoresistor, resistor and capacitor assortment, NE555CN timer, (2) 74HC165N parallel-in/serial-out 8-bit shift register, LM358N low-power dual op amp, DS1620 digital thermometer and thermostat, (2) 74HC595CN shift register, 24LC32A 32k I2C serial EEPROM, MC14489 lamp display driver, serial cable, USB cable, stepper motor, servo motor, CD-ROM software and documentation, and 12VDC @ 1A power supply.



Part No.	Product No.	Price
661116	27297 kit	\$248.95

## BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the *What's a Micro-controller?* (WAM) curriculum.

Includes all of the BASIC Stamp hardware required to complete the activities and challenges. The WAM kit includes a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.

**Includes:** BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable



Part No.	Product No.	1	10
282829	27207	\$158.95	\$152.95

## BS2P Professional Starter Kit

Provides the engineer with all the parts required to get started with the BS2P microcontroller.

The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BS2P.

**Includes:** Manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistors, jumper wires

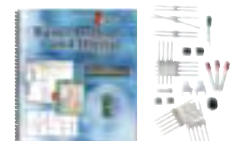
• Blue Part No. = Limited Quantity Available



Part No.	Product No.	1	10
202323	27235 kit	\$194.95	\$175.49
282984	45187 BS2P40 demo board	\$88.95	\$84.95

## Basic Analog and Digital Parts & Text V1.2

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.



Part No.	Product No.	1	10
282950	28155	\$44.99	\$43.99

## 26-Pitch Press-Fit Gears and Gear Set

- Works with DC motors with 0.156" and 0.078" shaft diameter
- Heavy-duty plastic construction
- Material: polyethylene resin

**131801:** 20-piece gear set includes two each of 10, 20, 30, 40 and 50 teeth gears and ten bushings

Part No.	Description	Bore Size	Dia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162077	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842"	\$ .89	\$ .69	\$ .49
162085	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225"	.89	.69	.49
162392	Bushing	0.075"	—	0.078 (5/64)"	—	.28	.25	.22

Part No.	Description	1	10	50
131801	Gear set – 20 pieces of all the gears and bushings shown above	\$8.55	\$7.80	\$6.94

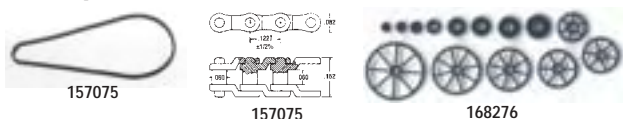


## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.

**168276:** 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size

Part No.	Description	1	10	25
157075	Drive chain (12" long)	\$9.95	\$8.95	\$7.95
168276	Sprocket set – 14 pieces (see description above)	29.49	26.49	23.89



## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

**168284:** 12-piece gear set includes 1 each of the following: 10 teeth with 3/32" bore size; 14 and 16 teeth with 1/8" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

Part No.	Description	1	10	25
157104	1/4" bore aluminum mounting hub with set screws	\$5.19	\$4.69	\$4.15
168284	Gear set – 12 pieces (see description above)	39.95	34.95	31.95



## "D" Type Bore Pinion Gears

- Black Nylon
- "D" type bore

Part No.	Description	Pitch	Bore Dia.	Dia.	1	10	100
662581	30 tooth gear	18	0.232"	0.610"	\$ .89	\$ .69	\$ .49
662590	32 tooth gear	9	0.315"	1.325"	1.09	.89	.69



## Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually

Part No.	Description	1	10	50
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.28	\$ .96
161998	.197" (5.00 mm) ID hub	1.19	1.02	.77
162270	.250" (6.35 mm) ID hub	1.49	1.31	1.20
162000	Rubber spider	1.55	1.38	1.26



## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8")
- Size: 0.75"L x 0.5"OD

Part No.	Description	1	10	100
138288	.250" ID sleeve coupler	\$4.75	\$4.25	\$3.85



## Gears and Shafts Kit

Bag of 10 gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.

Part No.	Description	1	10
215298	Gears and shafts kit	\$6.59	\$4.75



## Mobile Robotic Car Design Book

**McGraw Hill** This book describes in complete detail how to build a robotic car. It provides detailed photographs, schematics, list of vendors for parts, and provides software code for the processor and the digital signal processor with an explanation of what the code does and why. Printed circuit board files are free and can be downloaded from [www.books.mcgrawhill.com/authors/KachrooMellodge](http://www.books.mcgrawhill.com/authors/KachrooMellodge). (278 pages, 2005)

• Blue Part No. = Limited Quantity Available

Part No.	Description	Price
313592	Mobile Robotic Car Design	\$23.95



## Servo Controller

Controls up to 16 servos and may be networked together to control 32 servos using a single I/O line.

- 2400 to 384k baud serial port
- 63 ramp rates
- 16-bit PWM timers
- RS-232 serial protocol



Part No.	Product No.	Description	1	10
282896	28023	Servo controller	\$38.95	\$36.95

## High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001, pg 175
- 0.8"W x 1.4"D x 1.6"H



Part No.	Description	1	10
157067	Robotic servo	\$19.95	\$17.95

## Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Torque: 161 oz.-in.
- Power supply: 4.8-6 volts
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001, pg 175



Part No.	Description	1	10
166351	Giant robotic servo	\$44.95	\$42.69

## Crossbow

### Accelerometer Evaluation Boards

#### Dual Axis

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.



177308

Part No.	Product No.	Description	1	10
177287	ADXL202EB	Dual axis	\$59.95	\$53.95
177308	ADXL202EB-232	w/ RS-232	164.65	150.29

## Crossbow

### Accelerometer

#### Triple Axis Accelerometer

- Dynamic range & excellent frequency response
- Current: 24mA
- Shielded cable: 2-foot pigtail
- Acceleration range: ±4g
- Size: 1.9"L x 1.0"W x 0.8"H



141575

Requires: 5VDC power supply, not included (recommend P/N 164101, pg 237) Blue P/N = Limited Qty

Part No.	Description	1	10
141575	CXL04LP3	\$339.95	\$319.95
141583	Digital interface card	324.39	293.95

## Flex Sensor



- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Nominal resistance: 10Ω
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551	Flex sensor	\$12.95	\$11.65

## MONDO•TRONICS

### Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

- Length: 1 meter
- Includes: Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
								1	10
141321	100LT	100	150	180	28	150	33	\$17.95	\$15.95
141874	150LT	150	50	400	62	330	20	16.95	15.29
160055	375LT	375	8	2750	393	2000	4	22.95	19.95

\* Multiply by 0.0098 to get force in Newtons \*\* Cycles per minute, in still air, at 20° Centigrade

*How it works...* Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.



## Velleman

### Micro Bug Kits

A brightly colored miniature bug-shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- LED "eyes" indicate driving direction
- Adjustable light sensitivity that suits almost any light conditions
- Stops in total darkness
- Size: 4.0" x 2.4"



200328

200336

Requires: 2 AAA batteries (recommend P/N 249181, pg 246)

Part No.	Product No.	Description	Pieces	1	10
200328	MK127	Running	26	\$18.95	\$16.95
200336	MK129	Crawling	29	21.45	19.35

## Thames & Kosmos

### Fuel Cell Car Kit

Build a car with this kit that runs on water and watch as it turns water into hydrogen and oxygen, forming a gas to power your fuel cell car. Includes manual, explains how to build a solar powered car, the effects of direct and indirect radiation, the characteristics of a solar module, how to construct and load a reversible fuel cell, and the decomposition of water in the fuel cell.



Part No.	Description	1	10
307723	Fuel cell car and experiment kit	\$139.95	\$125.95

## Thames & Kosmos

### Power House Kit

Now you can build, heat and illuminate an energy-efficient house. Get to know and use the power of the sun, wind and new technologies. Conduct 70 experiments and build more than 20 devices with this Power House Kit.

Includes: 100-page full color manual



Part No.	Description	1	10
307731	Power house kit	\$139.95	\$125.95

## OWI

### Obstacle Avoidance Robot Kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.



Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	\$54.99	\$49.99

## OWI

### Robotic Arm Trainer Kit

#### Five Axes of Motion

Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its wired controller to grab, release, lift, lower, rotate wrist, and pivot sideways.

- Max. length: 14.2"
- Max. height: 20.1"
- Max. lifting capacity: 4.6 oz.
- Grip opens to 2" wide
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Wrist rotation clockwise or counter clockwise: 340°
- Rotates left to right at the base 350°
- Weight: 4.5 lbs.

Requires: 4 D batteries (recommend P/N 215845, pg 246)



Part No.	Description	1	10
157366	Robotic arm kit (unassembled)	\$83.95	\$76.44
159345	Robotic controller software (DOS 4.2 & up, Windows® 95/98)	85.79	77.26

**Robotics Kits, Parts & More!**

[www.RobotStore.com](http://www.RobotStore.com)

## Motorized Wooden Kits

*Kits, ideal for your child.*

These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous way to learn about gears and transmissions for ages 8 and up. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries (not included; see pages 246 & 247 for batteries).



Tyrannosaurus Kit

Part No.	Description	Price
242915	Stegosaurus kit	\$11.95
242923	Tyrannosaurus kit	11.95

## Hovercraft Kit ● 25-piece kit

This super kit is fun to build and a "blast" to run, but there's a bonus: education! Through the kit's curriculum (available online), budding scientists and engineers will learn principles of electricity and circuits, propellers, conversion of energy and other core concepts. And at the end of the learning process, they'll have a cool, battery-powered hovering vehicle that can glide over any smooth surface, even water!



☉ Blue Part No. = Limited Quantity Available

Part No.	Description	Price
285641	Hovercraft kit ☉	\$21.79

## 1 Amp Power Supply Kit ■ 12-piece kit

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators.

- Output current max.: 1.5A
- Max. input voltage: 40V
- Max. dissipation: 15W (cooled)

**Requires:** 25.2VCT @ 2A quick connect power transformer (recommend P/N 102104 or equivalent, pg 243)

Part No.	Product No.	Dimensions	1	10
117621	K1823	2.1"L x 2.1"W	\$12.95	\$11.65



## DC to Pulse-Width-Modulator Kit ▲ 40-piece kit

The circuit converts a DC voltage into a series of pulses, directly proportional to the value of the DC voltage.

- Operating voltage: 8 to 35VDC
- PWM frequency: 100Hz to 5kHz (adjustable)
- Min. consumption: 35mA
- Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC
- PWM range: 0 to 100%

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120539	K8004	3.3"L x 1.9"W x 1.8"H	0.5	\$22.95	\$20.49

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## Dual Adj. Regulated Power Supply Kit ■ 48-piece kit

Build a dual adjustable power supply for your circuits.

- Adjustable positive/negative supplies  $\pm 5$  to  $\pm 15$ VDC, 175mA–750mA per supply
- LED on indicator
- 120VAC input
- PC board construction

Part No.	Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626	JE215	5.1"L x 3.5"W x 2.0"H	2.1	\$27.54	\$24.59



## DC Voltage Monitor Kit ● 46-piece kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car NiCADs.



Part No.	Cross Ref. No.	Dimensions	1	10
181833	VM-1	2.7"L x 1.3"W	\$8.95	\$7.95

## velleman Lead Acid Battery Charger Kit ■ 62-piece kit

For charging and maintaining both open and sealed type 6V or 12V lead-acid batteries. Can be hooked-up to the unit for an indefinite time, and will be kept in optimal condition.

**Requires:** 18V/25VA transformer (P/N 149957, pg 243)

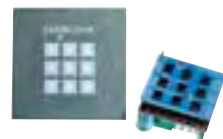


Part No.	Description	1	10
239521	Lead acid battery charger kit	\$42.15	\$40.02

## velleman Code Lock Kit ■ 67-piece kit

- Switch an alarm on and off or open door locks
- 3000+ codes possible
- LED indicates state
- Pulse or switch outputs
- Relay contact rating: 5A/220V

**Requires:** 8-12VAC power supply (P/N 100061, pg 240)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127554	K6400	1.7"L x 1.8"W	0.5	\$25.95	\$24.65

## velleman Jumbo Single-Digit Clock ■ 37-piece kit

- Time displayed as sequence of digits
- Bright 57mm (2.25") jumbo single-digit red 7-segment display
- Single button operation
- "Blank Display" function
- Power supply: 9 - 12VDC @ 150mA (max.)



Part No.	Product No.	Dimensions	1	10
645044	K3400	2.9"L x 2.3"W x 1.3"D	\$26.55	\$25.25

## velleman Multifunction Clock Kit ■ 335-piece kit

A multifunctional clock with six 1.42" high digits that indicate time, date and temperature. Includes a countdown function to a specific date with the last day displayed in HH:MM:SS. Also functions as a chronometer with lap function (1 second resolution), a scoreboard (two players or teams, counts up to 199), a random number generator from 00 to 99, 2-digit dice, counter and chime. US and European display option for time, date, and temperature formats.



- Fixed 433.92MHz transmitter frequency
- Temp. range: -20°C to +70°C (10 resolution): 0°F to +1500°F (20 resolution)
- Memory back-up option: 9V battery or rechargeable battery
- Relay output: 1A/24V max
- Power supply: 12VDC @ 300mA (not included)
- PCB size: 10"L x 32"W
- RF key chain remote control (battery not included)

Part No.	Description	1	10
319281	Multifunction clock kit	\$119.94	\$113.40

## CEBEK Second to Minute Timer Module

By triggering the timer, the contacts will be engaged. Once this time has expired, the relay will remain in the off state for 3-60 seconds. It then restarts, repeating the on and off process until power is disconnected.

- Output contact rating: 5A @ 200VAC
- Dimensions: 3.0"L x 1.7"W x 1.2"H

**Requires:** Power supply 12V @ 50mA (recommend P/N 100095, pg 238)

☉ Blue Part No. = Limited Quantity Available



Part No.	Description	1	10
147846	I-10 timer ☉	\$28.86	\$27.50

## Function Generator Kit ■ 21-piece kit

*Sine, Triangle and Square Wave*

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

- 21-piece kit (chip, components, PC board, hardware)

**Requires:** 12VDC supply or  $\pm 6$ VDC split supply (recommend P/N 20626, left)



Part No.	Cross Ref. No.	Dimensions	1	10
20685	JE2206	4.1"L x 1.5"W	\$24.95	\$22.95

## Logic Probe Kit ● 13-piece kit

This logic probe tests digital circuits at various points, and shows whether that point is high, low, or constantly changing. This will help you understand and troubleshoot logic gates, timers, clocks, counters, pre-scalers, and other digital circuits.



Part No.	Description	Dimensions	1	10
662725	Logic probe kit	4.0"L x 0.75"Dia.	\$9.95	\$8.96

## Infrared Transmitter/Receiver Kit ● 26-piece kit

Transmit a 40kHz modulated IR signal a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.



• Transmitter size: 1.0"L x 0.8"W • Receiver size: 1.4"L x 1.2"W

Requires: 6 to 15VDC battery (recommend P/N 151095, pg 246)

Part No.	Cross Ref. No.	Description	1	10
177092	IR-2	Transmitter/receiver	\$24.95	\$22.49

## Super Snooper Big Ear Audio Amplifier Kit ■ 17-piece kit

Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube to isolate unwanted noise and make a directional microphone.



• Operating voltage: 9VDC (recommend P/N 151095, pg 246)

Includes: Instructions, outputs for speakers or headsets, and schematic

Part No.	Description	Dimensions	1	10
151204	Audio amplifier kit	1.8"L x 1.0"W x 0.6"H	\$10.95	\$9.95

## velleman FM Stereo Transmitter Mini Kit ■ 37-piece kit

Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 88–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.



Requires: 9VDC power supply (recommend P/N 151095, pg 246)

Part No.	Description	Dimensions	1	10
151239	FMST-100 stereo kit	2.7"L x 2.0"W	\$29.95	\$26.95

## velleman FM Transmitter ■ 26-piece kit

Mini FM transmitter (100–108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.

• Integrated pre-amplifier (sensitivity 5mV)

Requires: 9-12VDC power supply (recommend P/N 20626, pg 309)



Part No.	Product No.	Dimensions	1	10
117604	K1771	1.8"L x 2.8"W	\$12.90	\$12.66

## FM Radio Kit ■ 65-piece kit

Easy to assemble – no coils to wind. Receives the complete FM band of 88–108MHz.

• With on/off switch, volume control, and LED indicator  
• Single adjustment

Requires: 12VDC @ 100mA power supply (recommend P/N 100095, pg 238)



Part No.	Product No.	Dimensions	1	10
211772	MK118	4.8"L x 3.3"W	\$21.95	\$19.95

## velleman Universal Mono Pre-Amplifier ■ 17-piece kit

For audio applications with insufficient input signal.

• Output impedance: 1kΩ • Max. input signal: 40mV  
• Frequency range: 20Hz - 20kHz +/-3dB  
• Adjustable output level: 40dB max.



Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626, pg 309)

Part No.	Product No.	Dimensions	1	10
117612	K1803	1.2"L x 1.8"W	\$8.95	\$7.95

## velleman 10 LED Mono VU Meter Kit ■ 36-piece kit

• Instant visualization of audio signal levels  
• Easy hook up to a LINE level (LOW input) signal source  
• Special input (HIGH input) is provided, which allows direct connection to a speaker  
• Frequency range: 20Hz to 30kHz  
• Dot or bar display mode selectable



Requires: 15VDC @ 300mA max. power supply (P/N 189982, pg 239)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147643	K4304	2.7"L x 1.4"H	0.3	\$18.99	\$16.99

## 7-Watt Amplifier Kit ■ 22-piece kit

• Music output power: 7W @ 4Ω  
• RMS output: 3.5W @ 4Ω & 2W @ 8Ω  
• Harmonic distortion: 0.05% (1W/1kHz)  
• Frequency response: 20 to 20kHz (-3dB)  
• Short circuit/overload protection



Requires: 15VDC (8–18VDC) @ 500mA power supply (recommend P/N 155803, pg 239); speakers

Part No.	Product No.	Dimensions	1	10
127255	K4001	2.2"L x 1.4"W	\$14.95	\$13.36

## velleman 30-Watt Stereo Power Amplifier ■ 38-piece kit

General purpose stereo amp for audio applications.

• RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω  
• Frequency bandwidth: 7Hz to 60kHz (-3dB)  
• Separation: 70dB  
• Supply voltage: 24VCT @ 2A (recommend P/N 101865, pg 242)



Part No.	Product No.	Dimensions	1	10
129138	K4003	2.8"L x 2.0"W	\$29.95	\$26.95

## 200W Mono/Stereo Amplifier ▲ 57-piece kit

Three keywords to describe this amplifier:

**universal**—a stereo or a mono amplifier with three input sensitivity settings;  
**robust**—overload and short-circuit protection against incorrect power supply polarity and thermal protection; and lastly **compact**.



• RMS output power: 2 x 50W/4Ω; 2 x 40W/8Ω  
• RMS mono-bridged power: 100W/8Ω  
• Total music output: 200W  
• Harmonic distortion: 0.01% @ 1kHz  
• Stereo channel separation: 85dB  
• Input sensitivity: 300mV/550mV/1V switchable  
• Power supply: ±28VDC  
• Signal to noise ratio: 102dB  
• Input impedance: 22kΩ

Part No.	Product No.	Dimensions	1	10
645301	K4004B	8.3"W x 3.4"H x 2.5"D	\$91.15	\$89.75

## Guitar Pre-Amplifier w/ Headphone Output ■ 34-piece kit

An electric guitar cannot be connected to just any amplifier or audio installation. This pre-amplifier has been designed for this purpose and provides you with a headphone output, allowing you to practice without disturbing others. Fitted with a special device for tone adjustment to create your own sound.



• Headphone output: 2 x 50mW/32Ω (max.)  
• Power supply: 9V battery (not included)  
• Sound adjustment  
• Adjustable input sensitivity

Part No.	Product No.	Dimensions	1	10
645327	K4102	4.1"L x 2.8"W x 1.2"H	\$34.99	\$32.99

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## Sound Generator Kit 61-piece kit

- Produces 10 different sounds w/ adjustable speed: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns
- Push-button keyboard

**Requires:** 8Ω, 1 watt speaker; 9V battery (recommend P/N 151095, pg 246)




Part No.	Product No.	Dimensions	1	10
127562	K4401	2.8"L x 2.8"W	\$29.95	\$26.95

## Siren Kit 20-piece kit

- Oscillator is off until you press the switch, then a rising tone is produced until a steady value is reached
- If switch is released, tone starts dropping until it cuts off
- Circuit designed around a dual op amp connected as an oscillator and driver



**Requires:** 9V battery (recommend P/N 151095, pg 246)

 Blue Part No. = Limited Quantity Available

Part No.	Description	Dimensions	1	10
125137	9V siren 	2.0"L x 0.8"W x 0.5"H	\$7.95	\$7.15

## FM Stereo Transmitter Kit 45-piece kit

Transmit to any FM radio tunable from 88 to 108MHz. Compatible with any of your audio system components. Plug in your CD player or tape deck and have a wireless link to any FM radio. Even transmit music from your computer to any FM Radio. Clarity is excellent; approx. 40dB stereo separation. Transmits up to 200 ft. (Does not include enclosure.)



Part No.	Product No.	1	10
662741	FMC-2000	\$54.95	\$46.46

## Radio Direction Finder Kit 69-piece kit

A direction finder antenna that connects to any UHF/VHF Ham Radio or Scanner; great for finding hidden transmitters that are raising havoc with your repeater. Tune your radio to the frequency of the transmitter you are trying to locate (from 140MHz to 500MHz); you will hear a tone and the transmitter modulation at the same time. To further check your progress, the signal level meter of the radio should rise.



Part No.	Product No.	1	10
662733	SDF-1	\$44.95	\$40.46

## Electronic Record/Playback Module 64-piece kit

High-quality, natural voice/audio reproduction. Can be used to greet visitors, play pranks, or warn off burglars. EEPROM technology with 100-year message retention, and up to 20 seconds of recording time per module.

- Speaker output: 12mW, 8 - 16Ω
- Sampling frequency: 6.4kHz
- Power consumption: DC power supply: 4mA standby, 100mA (max.) during playback; battery operated: 20μA standby, 100mA (max.) during playback
- Power supply: 8 - 18VDC or 6V battery (4 AA or AAA not included)



Part No.	Product No.	Dimensions	1	10
645335	K8030	3.7"L x 2.9"W x 1.0"H	\$36.25	\$31.66

## USB Interface Card Module

Interface board has 5 digital input channels and 8 digital output channels. In addition, there are two analog inputs and two analog outputs with 8-bit resolution. Inputs/outputs can be expanded by connecting more cards to the PC's USB port (max. of four).



### Diagnostic/Test Software

- Separate output/input test
- Clear all/set all function
- Analog input bar-graph indication
- Analog output set sliders
- Counter function on inputs 1 and 2 with adjustable debounce

Part No.	Description	1	10
645263	USB interface card module	\$70.79	\$69.65

## 200W Power Amplifier Module

- Fully discrete design using epitaxial Darlington transistors
- DC supply circuit on board with LED indication
- Ideal for active speaker system or subwoofer, guitar amp, home theatre systems, instrument amp, etc.
- Comes fully adjusted and tested
- Overload and short-circuit protection
- 200W music power @ 4Ω load
- 70Wrms power @ 8Ω load
- Distortion: 0.02% @ 1kHz/10W
- Frequency response: 3Hz to 200kHz (-3dB)
- Power supply: 25-30VAC, 120VA
- Recommended power transformers: 230VAC input, 2 x 30VAC output; 115/230VAC input, 2 x 25VAC output
- 100Wrms power @ 4Ω load
- Damping factor: >800
- Signal to noise ratio: 115dB
- Sensitivity: 0.6Vrms
- PCB dimensions: 107x62mm (approx.)



Part No.	Product No.	Dimensions	1	10
645239	VM100	4.2"L x 2.4"W	\$66.05	\$64.99

## Wide Band Amplifier Kits

### 662750: 7-pieces

- 1MHz to 1.5GHz, 7.5dB NF
- 1dB compression = +11dBm
- Gain: 1MHz - 8dB to 1.5GHz - 5dB
- Power requirements: 12VDC @ 50mA

### 662768: 7-pieces

- 1MHz to 2.5GHz, 2.8dB NF
- 1dB compression = 0dBm
- Gain: 1MHz - 20dB to 2.5GHz - 6dB
- Power requirements: 12VDC @ 6mA

### 662784: 11-pieces

- Gain: 4MHz - 29dB to 1.9GHz - 17dB
- Power requirements: 12VDC @ 56mA
- 4MHz to 1.9GHz, 3dB NF
- 1dB compression = +8dBm

Part No.	Product No.	Dimensions	1	10
662750	WBA4	1.2"L x 0.8"W	\$14.95	\$13.46
662768	WBA6	1.2"L x 0.8"W	19.95	17.96
662784	WBA64	2.5"L x 0.8"W	29.95	26.55

## Audio Stereo Amplifier Kit 32-piece kit

This kit teaches how amplifiers take a small signal and amplify it to drive two small speakers or headphones. Provides up to 1-Watt of low-distortion audio power. The harmonic distortion is 0.2% and the voltage gain is up to 46dB.



Part No.	Product No.	Dimensions	1	10
662670	EBST-11	2.8"L x 2.3"W	\$9.95	\$8.96

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## Voice Activated LEDs Kit 33-piece kit

Uses sound to activate the flashing of 4 bright red LEDs.

- Power consumption: 0.5mA min./12mA max.
- Adjustable sensitivity

**Requires:** 8-15VDC power supply (P/N 100095, pg 238) or 9VDC battery (P/N 151095, pg 246)




Part No.	Product No.	Dimensions	1	10
147571	MK103	2.5"L x 1.6"W x 1.4"H	\$9.95	\$8.95

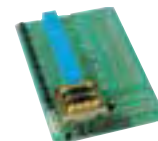
## Universal Relay Controller Card Kit 64-piece kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- 8 channels expandable to 16 using 8 each P/N 144186
- Relay output: maximum 5A/220VAC
- TTL or 5V CMOS inputs (recommend P/N 34315, pg 38)
- Contact voltage: 12VDC @ 250mA

**Requires:** 220 or 125VAC power source

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910	K6714	8.3"L x 5.9"W	1.8	\$64.15	\$57.73
144186	VR15M121C relay (JZC-22F) 		0.028	3.79	3.39



128910



= Beginner



= Intermediate



= Expert

## Relay Card ■ 29-piece kit

Connecting a number of relays to the outputs of an electronic network may seem very simple, but in reality it could create some problems regarding the cabling. This kit provides an attractive and compact alternative. Easy to assemble and can be connected instantly.

- 4 x 3A relay outputs

**Requires:** 9VDC @ 300mA power supply (recommend P/N 133891, pg 238)

Part No.	Description	Dimensions	1	10
239476	Relay card kit	3.0"L x 2.7"W	\$19.99	\$18.99

## velleman Parking Radar Kit ■ 55-piece kit

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object near you.

- Detection range: 5cm – 1.5m; angle: 5°
- Transmitter frequency: 40KHz
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

**Requires:** 10-15VDC @ 16mA max (recommend P/N 100095, pg 238) or auto power plug (recommend P/N 115002, pg 174)

Part No.	Product No.	1	10
129120	K3502	\$39.95	\$34.95

## velleman 3-Channel Light Organ Kit ■ 80-piece kit

Add a 3-channel dancing light display to your music. Each channel displays a different range of sound.

- Frequency ranges are adjustable
- Microphone input
- Maximum load 2A per channel
- Each output has individual sensitivity control

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
131684	K8017	6.7"W x 5.6"D x 1.7"H	1.2	\$59.94	\$49.52

## IR LED Illuminator Kit ■ 41-piece kit

- 36 high powered infrared LEDs
- At 24" the beam is approximately 3.5' across
- Improve low-light camcorder and CCD camera images without visible light

**Requires:** 12-15VDC power supply (recommend P/N 114825, pg 238)

Part No.	Description	Dimensions	1	10
157964	IR illuminator kit	2" Dia.	\$16.95	\$15.29

## Stop Light Controller Kit ■ 36-piece kit

This kit will simulate the operation of red, yellow, and green traffic lights. Applications such as model train displays, three way traffic intersections, dancing light in a party room, and other countless applications. If you would need to control larger lamps you can connect a relay or an I/O module to each output.

- Red, yellow and green LEDs included
- Power requirements: 7.5 to 18VDC

Part No.	Cross Ref. No.	Dimensions	1	10
662709	STOP-1	2.8"L x 2.3"W	\$17.95	\$16.16

## Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between sent and echoed signals. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105) or RS-232 signal (P/N 151482).

- Sensing range: 4" to 60"
- Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

**Requires:** 15 to 24VDC @ 40mA (not included), recommend P/N 114825, pg 238

- 134105: • Output voltage: 0-10VDC
- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")
- 151482: • RS-232 output

**Includes:** Software diskette and computer cable

Part No.	Description	Wt. (lbs.)	1	10
134105	Sensor – voltage output	0.2	\$174.35	\$156.91
151482	Sensor – RS-232 output	1.0	179.95	161.95

## velleman Metal Detector ■ 22-piece kit

- Proximity range adjustable to 8cm
- Size: 2.1"L x 2.1"W
- LED indicator; can use with a buzzer

**Requires:** 9V battery (recommend P/N 151095, pg 246)

Part No.	Product No.	Description	1	10
129091	K7102	Metal detector	\$11.95	\$10.95

## velleman Scrolling Message Kit ■ 76-piece kit

Create your own scrolling message with this 35-LED graphic display kit. Press "SET" to change a particular character, "UP" or "DOWN" arrow to select the character, and end your scrolling message with the "<" character.

- 35-LED display
- Maximum 16 characters

**Requires:** 9 to 12VDC @ 20mA (recommend P/N 100845, pg 238)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200310	MK124	3.5"L x 2.6"W x 1.8"H	0.2	\$24.95	\$22.45

## Moving Message Board

Ideal for advertisements and meetings.

Two scrolling speeds and memory backup power (up to 3 months). Max. 600 characters can be programmed.

- 1.25" dot matrix LED display
- Large memory capacity: 4 messages + 1 alarm message
- Alarm message is activated by N.O. switch
- Memorized data are saved by backup battery (2 x AAA-batteries)
- Power supply: 12VDC/500mA adapter included
- 10 characters wide display
- Select fast or slow scrolling speed
- Low-battery indicator

Part No.	Product No.	Dimensions (external/display)	1	5
645474	MML-10	11.8"L x 3.5"W x 2.8"H/10.8"L x 1.4"H	\$151.95	\$144.35

## velleman Flashing LED Sweetheart Kit ■ 46-piece kit

This kit shows a beating heart. Great for decorations!

- Power consumption: 8mA

**Requires:** 8 to 15VDC wall transformer (P/N 100095, pg 238) or 9VDC battery (P/N 151095, pg 246)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147555	MK101	2.5"L x 2.4"W x 1.2"H	0.1	\$11.95	\$10.95

## velleman Flashing LED Kit ■ 23-piece kit

Activates 2 flashing LEDs for applications such as model building. Flashing speed controlled by potentiometers.

- 5.5" wire w/ 9V battery connector
- Consumption: 4mA min.

**Requires:** 9VDC battery (P/N 151095, pg 246)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580	MK102	1.3"L x 1.4"W x 0.6"H	0.1	\$7.95	\$7.19

## 2-Digit Serial LED Display w/ Interface Kit ■ 46-piece kit

- Bright, red jumbo-sized 7-segment displays (57mm)
- Up to 255 units can be separately addressed
- Power supply: 9-12VDC @ 120mA per display
- RS-232 interface: 2400 baud/8 data bits/no parity/one stop bit
- Can be linked to create large readout for score-keeping, timing and counting

Part No.	Description	Dimensions	1	5
645221	2-digit serial LED kit	2.9"L x 2.3"W x 1.3"H	\$55.79	\$51.10

## Fiber Optic Lab Kit ■

Kit contains nine fiber optic experiments and all the electronic components needed.

- Fiber optic cable transmission
- Characteristics of connectors and splices
- Speed of opto-electronic devices
- Making a light guide
- Index-matching procedures
- Weight: 0.7 lbs.
- Receiver design
- Fiber optic transmitter
- Fiber termination techniques

Part No.	Description	1	10
169914	Lab course and lab kit	\$44.95	\$41.39

See next page for Ordering Information

**Fax 1-800-237-6948 Order 24 hours/7 days a week!**

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(\_\_\_\_\_) \_\_\_\_\_

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PURCHASE ORDER NO.: \_\_\_\_\_

☐ Credit Card

Credit Card users only:

Credit Card Number            Exp. Date: Month   Year     Name on card \_\_\_\_\_

Billing Address Street/PO Box \_\_\_\_\_

City/State/Zip \_\_\_\_\_

**4**

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

PRODUCT WEIGHT

SUB-TOTAL

Packaging Weight  
(Add 1/2 lb. + 1/2 lb.  
for each 10 lbs. of product)Total Weight  
(Round to next lb.)**5 Please Check Shipping Method Below**

Commercial Destination	First 2 lbs.	Ea. Added lb.	Residential Destination	First 2 lbs.	Ea. Added lb.
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<input type="checkbox"/> 3-Day	\$9.95	\$1.69	<input type="checkbox"/> 3-Day	\$11.95	\$1.69
<input type="checkbox"/> 2-Day	\$13.95	\$2.49	<input type="checkbox"/> 2-Day	\$15.95	\$2.49
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☐ **Priority Mail (USPS)\*** .....\$5.95 for 1st lb., \$1.49 for each additional lb.

\* Not available for products shipped from an alternate warehouse

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Please Add Applicable Sales Tax (California Only)

Shipping (See Item 5)

C.O.D. (add \$7.50)

Credit Memo (please attach)

**TOTAL**

FOR OFFICE USE ONLY

# \_\_\_\_\_

/ \_\_\_\_\_

**6****JAMECO** *thanks you for your order!*

# Ordering Information

## PAYMENT OPTIONS

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We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

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You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

### Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

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### International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

E-mail: [international@jameco.com](mailto:international@jameco.com).

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Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. – 5:00 p.m. Monday – Friday.



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The following services are available at 1-650-592-8097 Monday – Friday from 6:30 a.m. – 5:00 p.m. PST or via e-mail:

- International Sales ([international@jameco.com](mailto:international@jameco.com))
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Please call us at 1-800-831-4242.

## POLICIES

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Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

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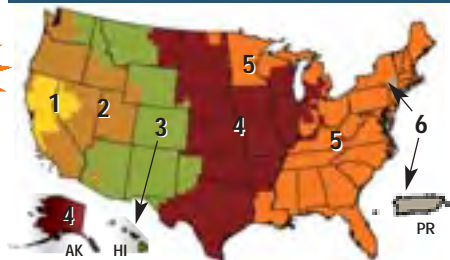
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Prices are effective 04-09-07. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

## RoHS COMPLIANCE

Jameco obtains all RoHS compliance status information from its suppliers solely and does not verify or confirm such status.

## SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

- |        |        |        |
|--------|--------|--------|
| 1 day  | 2 days | 3 days |
| 4 days | 5 days | 6 days |

Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

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Shipping delivery times are based on working days.



Commercial Destination	First 2 lbs.	Ea. Added lb.
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Ground	\$6.49	\$0.79
3-Day	\$11.95	\$1.69
2-Day	\$15.95	\$2.49
Next Day	\$37.95	\$3.99

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See pages 202 – 203 for more Hardware

## KEYSTONE Hardware

### 4-40 Mounting Bracket

- Material: zinc plated
- Size: .343"H x .375"L x .250"W • Min. order 5 pieces

Part No.	Product No.	Description	5	50
1581530	621R	L-type, steel	\$.186	\$.167

### Rubber Grommet

- .062" panel thickness
- .437"ID x .812" mounting hole

Part No.	Product No.	Description	1	5	50
1581556	747R		\$.40	\$.364	\$.341

### Nylon Shoulder Washers/Bushing

- Nylon 6/6 • Diameter: .218"
- Minimum order 5 pieces

Part No.	Product No.	Screw Size	5	50
1581804	3049R	4	\$.047	\$.042

### 4-40 Force-Fit Threaded

- Stainless steel • .219" diameter
- .166" mounting hole \* Minimum order 5 pieces

Part No.	Product No.	Description	1	5	50
1581898	4861R	Round, .065"L *	\$.477	\$.429	
1581901	4863R	Round, .250"L .70	.65	.61	

### .250" Swage Threaded 4-40

- Brass nickel plated • .187" shank diameter
- Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1582428	1560AR	Round .125"H	\$.22	\$.204

### Spacer

- Nylon 6/6, UL94V-0
- Slimline lock-in, ins. • .275" diameter
- .156"/.187" mntng hole • Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1582452	1930BR	.625"L	\$.08	\$.074

- #8 screw, Aluminum • Clear hole
- .176" ID x .232" OD
- Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1581492	415R	.437"L	\$.122	\$.11

## KEYSTONE Fuse Holders

### Automotive

**NEW**

- Vertical entry • Dual Fuses: UL9V-0
- Current rating: 30A @ 500VAC (except P/N 1581863: 60A @ 500VAC)

Part No.	Product No.	Description	1	10	50
1581839	3522R	Dual, brass, tin plated	\$.14	\$.116	\$.104
1582479	3522-2R	Single, brass, tin plated	.35	.31	.28
1582487	3544-2R	"Mini", dual, brass, tin nickel plated	.69	.64	.59
1581863	3555R	"Maxi", single, brass, tin nickel plated	.23	.184	.179

### 5mm Fuse Clips

- PC Mount
- Material: brass, tin plated

Part No.	Product No.	Description	5	50
1581812	3517R	Single, end stop, 15A	\$.108	\$.102
1582461	3518PR	Single, orientation leg, 15A	.13	.122
1581821	3519R	Single, orientation leg, 10A	.082	.074
1581855	3529R	Single, end stop, 10A	.095	.089

### 5mm Fuse Holders

- PC Mount • Material: nylon, UL9V-0
- Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1581871	4527R	Low profile holder, 5A @ 250VAC	\$.333	\$.312
1582495	4527-CR	Cover	.17	.151

## KEYSTONE Terminal Turrets

- Material: brass, bright tin plated
- Mounting Hole: .078" dia.
- Minimum order 10 pieces

- 1582410: Single
- .109" PCB Thickness
- 1582436: Double
- .082" PCB Thickness

Part No.	Product No.	Description	10	100
1582410	1520-2R	.187"L	\$.10	\$.09
1582436	1573-2R	.186"L	.184	.165

## KEYSTONE Terminal Lug

- Material: brass, tin plated
- .140" ID • #6 Stud
- Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1581572	904R	Lockwasher	\$.062	\$.058

## KEYSTONE Deluxe Tip Jacks

- Fully insulated
- Current rating: 10A
- Size: .949" L x .375" Dia.
- Accepts .080" tip
- Chassis mount with nut

Part No.	Product No.	Color	1	5	50
1582111	6030R	White	\$1.94	\$1.80	\$1.69
1582129	6033R	Green	1.85	1.66	1.49
1582137	6034R	Yellow	1.85	1.66	1.49

## Looped Surface Mount Test Point

- Phosphor bronze, Silver plated flat wire
- Tape and reel
- Minimum order 5 pieces

- 1582081: .060"H x .105"L x .040"W
- 1582090: .090"H x .150"L x .112"W

Part No.	Product No.	Description	5	50
1582081	5015R	Miniature	\$.097	\$.091
1582090	5016R	Compact	.161	.151

## KEYSTONE Screw Terminals

- Material: brass, tin plated • Rated 15A
- Screw: 6 - 32 x .250", brass, nickel plated
- Accepts: 14-20 AWG wire

Part No.	Product No.	Thick	Description	1	5	50
1581695	1248R	—	PC Mt, off-set solder, captivated ... *	\$.166	\$.155	
1582241	7690R	32µ"	Snap-in, horizontal, unassembled *	.22	.202	
1582250	7693R	32µ"	Snap-in, vertical, captivated	*.23	.214	
1582268	8189R	32µ"	PC Mt, 45°, unassembled	*.23	.212	
1582276	8190R	32µ"	PC Mt, horizontal, unassembled ... *	.24	.221	
1582284	8191R	32µ"	PC Mt, vertical, unassembled	*.19	.171	
1582292	9189R	32µ"	Snap-in, vertical, unassembled ...	.57	.531	.498

## AVAGO NEW Infrared Emitters

- Package size: T1-3/4 (5mm)
- tR/tF (ns): 40/40 • VF (V): 1.5

Part No.	Product No.	Viewing Angle	On Axis Intensity (mWsr)	1	10	100
1556094	HSDL-4220	30	38	\$.62	\$.57	\$.538
1556107	HSDL-4230	17	75	.62	.57	.538

- Transceiver top view package • Size: 4mm x 12.2mm x 4.9mm
- Link distance: 1 meter • Receiver latency: 50

Part No.	Product No.	Idle Current (mA)	Shutdown Current (mA)	Pricing
1556086	HSDL-3612-008	5	10	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

**NEW**

## Late Additions

See pages 278 – 280 for more Test Leads

## KEYSTONE Looped Color Coded Test Points

- Phosphor bronze, silver plated wire
- Snap-fit mount
- PBT, UL94V-0
- Minimum order 5 pieces

Part No.	Product No.	Color	5	50
1581986	5001R	Black	\$.133	\$.124
1581994	5002R	White	.157	.147
1582006	5004R	White	.176	.158

### Miniature (.300" L, .040" Dia. Mtg. Hole)

Part No.	Product No.	Color	5	50
1581986	5001R	Black	\$.133	\$.124
1581994	5002R	White	.157	.147
1582006	5004R	White	.176	.158

### Compact (.350" L, .063" Dia. Mtg. Hole)

Part No.	Product No.	Color	5	50
1582014	5005R	Red	\$.175	\$.164
1582022	5006R	Black	.199	.186
1582031	5007R	White	.15	.141

### Multipurpose (.445" L, .063" Dia Mtg Hole)

Part No.	Product No.	Color	5	50
1582049	5010R	Red	\$.224	\$.202
1582057	5011R	Black	.179	.168
1582065	5012	White	.175	.164
1582073	5014R	Yellow	.23	.202

## KEYSTONE PC Test Points

- Straight
- Solder
- Minimum order 5 pieces

- 1581601/1581951: • .118"W • 25µ" thick
- 1581960: • .094"W • 20µ" thick

Part No.	Product No.	Description	5	50
1581601	1033R	Looped, .171"L	\$.075	\$.071
1581951	4951R	Slotted, .275"L	.053	.05
1581960	4953R	Looped, .355"L	.064	.06

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